

FCC SAR EVALUATION REPORT

In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013

Product Name : Tablet

Trademark : ulefone

Model Name : UF1103

Family Model : Tab A11 Pro, Tab A11,
Tab A11 Ultra, Tab A11 Lite,
Tab A11P, Tab A11E, Tab A11S

FCC ID : 2AT9T-1103

Report No. : S24052104207001

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TEST RESULT CERTIFICATION

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Product description

Product name..... Tablet
Trademark ulefone
Model Name UF1103
Family Model..... Tab A11 Pro, Tab A11, Tab A11 Ultra, Tab A11 Lite, Tab A11P, Tab A11E, Tab A11S
FCC 47 CFR Part 2(2.1093);

Standards..... IEEE Std 1528-2013;
Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093). The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number S240521042007

Date of Test

Date (s) of performance of tests..... May. 28, 2024 ~ Jun. 07, 2024

Date of Issue Jul. 18, 2024

Test Result Pass

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※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jul. 18, 2024	Jack Li

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1. General Information

1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

General Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

NOTE
TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for UF1103 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCE	DTS	NII	DSS	
1-g Body-Worn (Separation distance of 0mm)		0.892	0.440	0.618	0.264	0.892
1-g Hotspot (Separation distance of 0mm)		0.892	0.440	0.618	0.264	
Max Simultaneous Tx	Body-Worn	1.510	1.332	1.510	1.156	1.510
	Hotspot	1.510	1.332	1.510	1.156	

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Tablet
Trade Name	ulefone
Model Name	UF1103
Family Model	Tab A11 Pro, Tab A11, Tab A11 Ultra, Tab A11 Lite, Tab A11P, Tab A11E, Tab A11S
Model Difference	All models are the same circuit and RF module, except for model names.
FCC ID	2AT9T-1103
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	PCB Antenna
Battery	DC 3.8V, 8800mAh, 33.44Wh
Hardware version	N/A
Software version	N/A
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/17/26A/26B/41, WLAN 2.4G/5G, Bluetooth
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, π/4-DQPSK, 8DPSK)
Device Class	B

Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 26A	814-824	859-869
	LTE Band 26B	824-849	869-894
	LTE Band 41	2565-2645	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
WLAN 5.8G	5745-5825		
Bluetooth	2402-2480		
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 26A)		
	3, tested with power control all Max.(LTE Band 26B)		
3, tested with power control all Max.(LTE Band 41)			

1.4. Test specification(s)

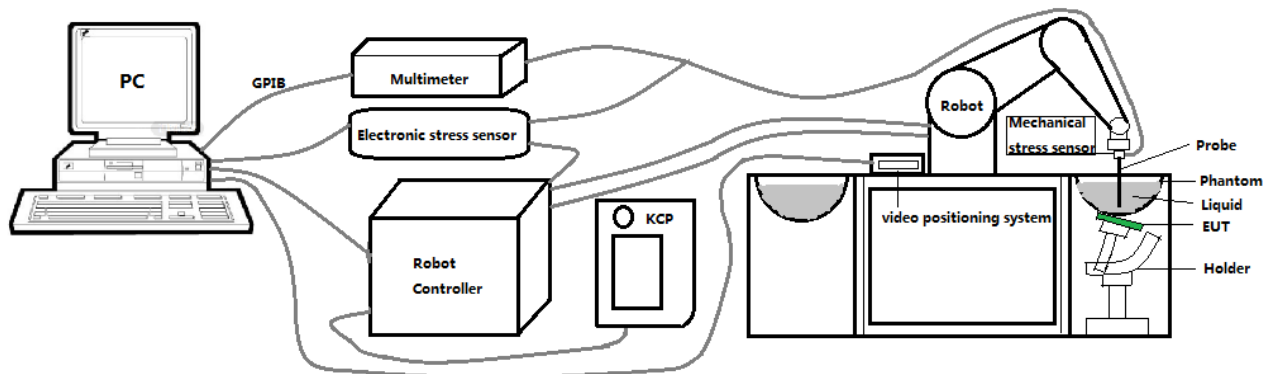
FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 616217 D04 SAR for laptop and tablets

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 3423-EPGO-426 with following specifications is used



- Dynamic range: 0.01-100 W/kg
 - Tip Diameter : 2.5 mm
 - Distance between probe tip and sensor center: 1 mm
 - Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
 - Probe linearity: ± 0.06 dB
 - Axial isotropy: ± 0.01 dB
 - Hemispherical Isotropy: ± 0.01 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 8mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. SAM phantoms

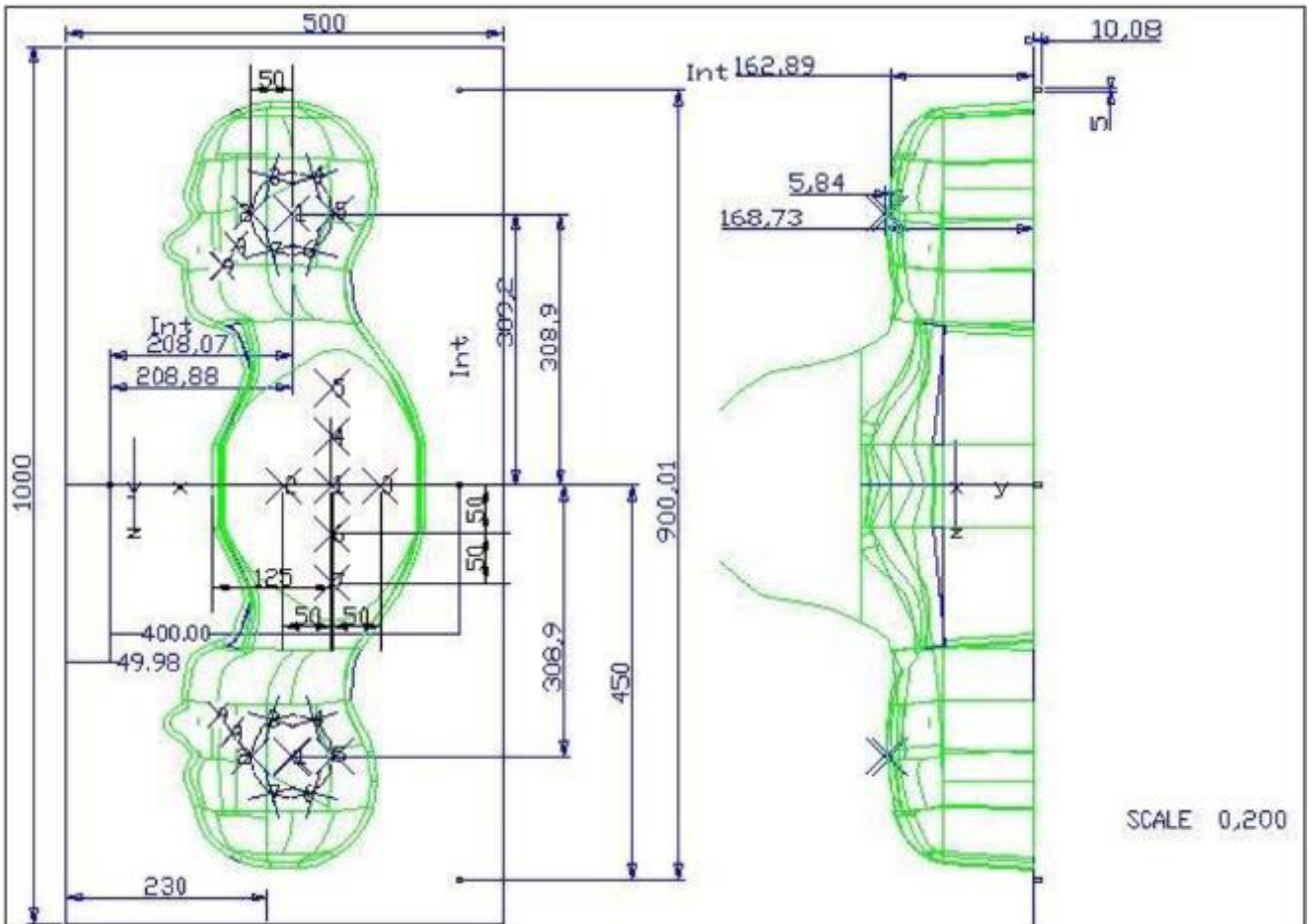
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by mobile phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

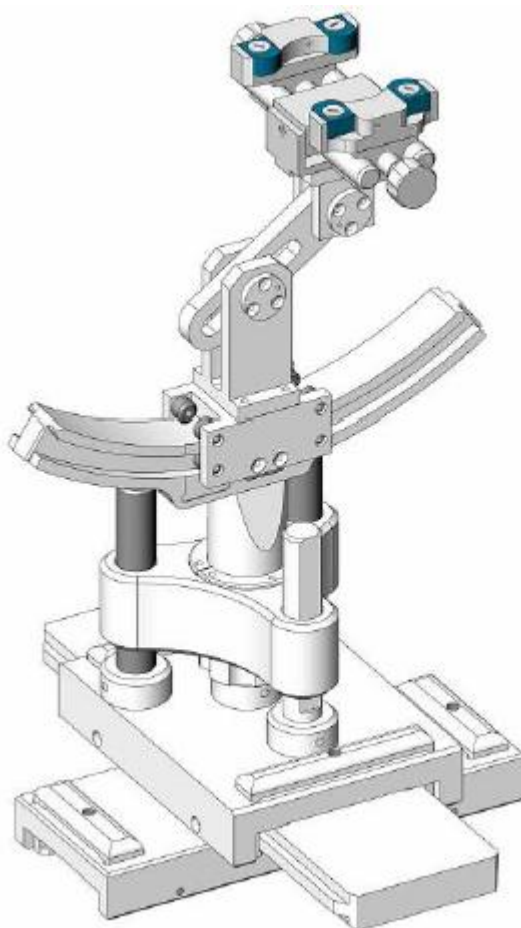


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 µm.

2.5. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
<input checked="" type="checkbox"/>	MVG	E FIELD PROBE	SSE2	3423-EPGO-426	Sep. 18, 2023	Sep. 17, 2024
<input checked="" type="checkbox"/>	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
<input type="checkbox"/>	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
<input checked="" type="checkbox"/>	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
<input checked="" type="checkbox"/>	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
<input checked="" type="checkbox"/>	R&S	Universal radio communication tester	CMU200	117858	Apr. 26, 2024	Apr. 25, 2025
<input checked="" type="checkbox"/>	R&S	Wideband radio communication tester	CMW500	103917	Apr. 26, 2024	Apr. 25, 2025

<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	Apr. 26, 2024	Apr. 25, 2025
<input checked="" type="checkbox"/>	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	Apr. 25, 2024	Apr. 24, 2025
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
<input checked="" type="checkbox"/>	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
<input checked="" type="checkbox"/>	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 750	Head 750	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 835	Head 835	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1800	Head 1800	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 1900	Head 1900	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 2450	Head 2450	NCR	NCR

<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 2600	Head 2600	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 5200	Head 5200	NCR	NCR
<input checked="" type="checkbox"/>	Shenzhen Tianxu Communication Technology Co., Ltd.	Human Simulating Liquid	Head 5800	Head 5800	NCR	NCR

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/Bluetooth output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·Δz _{Zoom} (n-1)
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

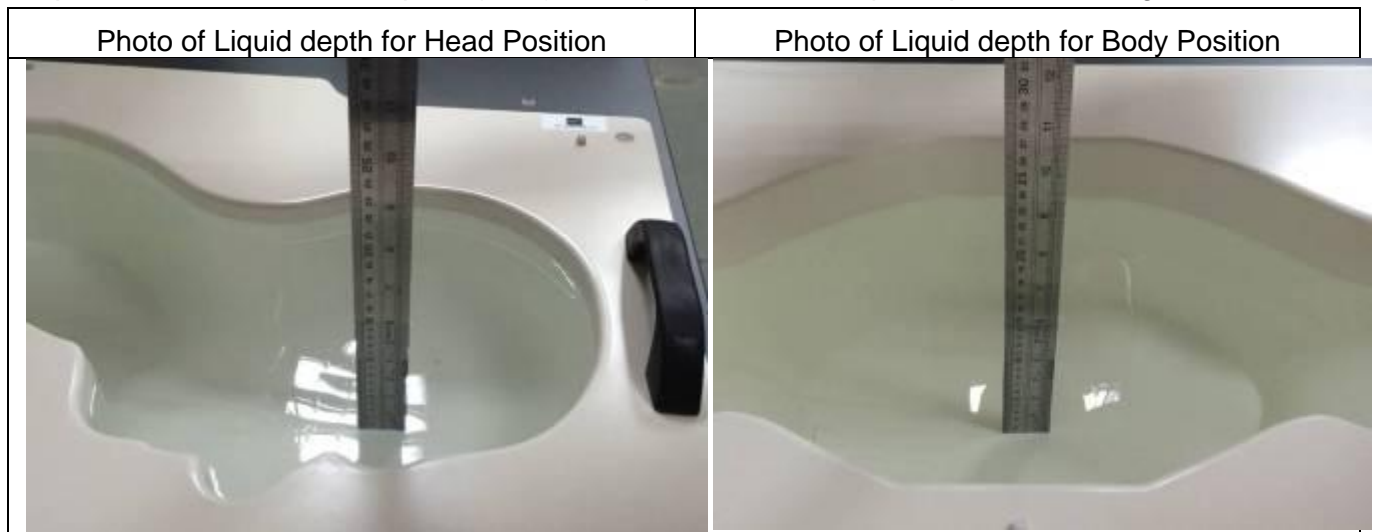
4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue								
	750	835	900	1800	1900	2000	2450	2600	5000
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5000
Water	34.40	34.40	34.40	55.36	55.36	71.88	71.88	71.88	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	17.24
DGBE	0.00	0.00	0.00	13.84	13.84	7.99	7.99	7.99	0.00

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.



4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

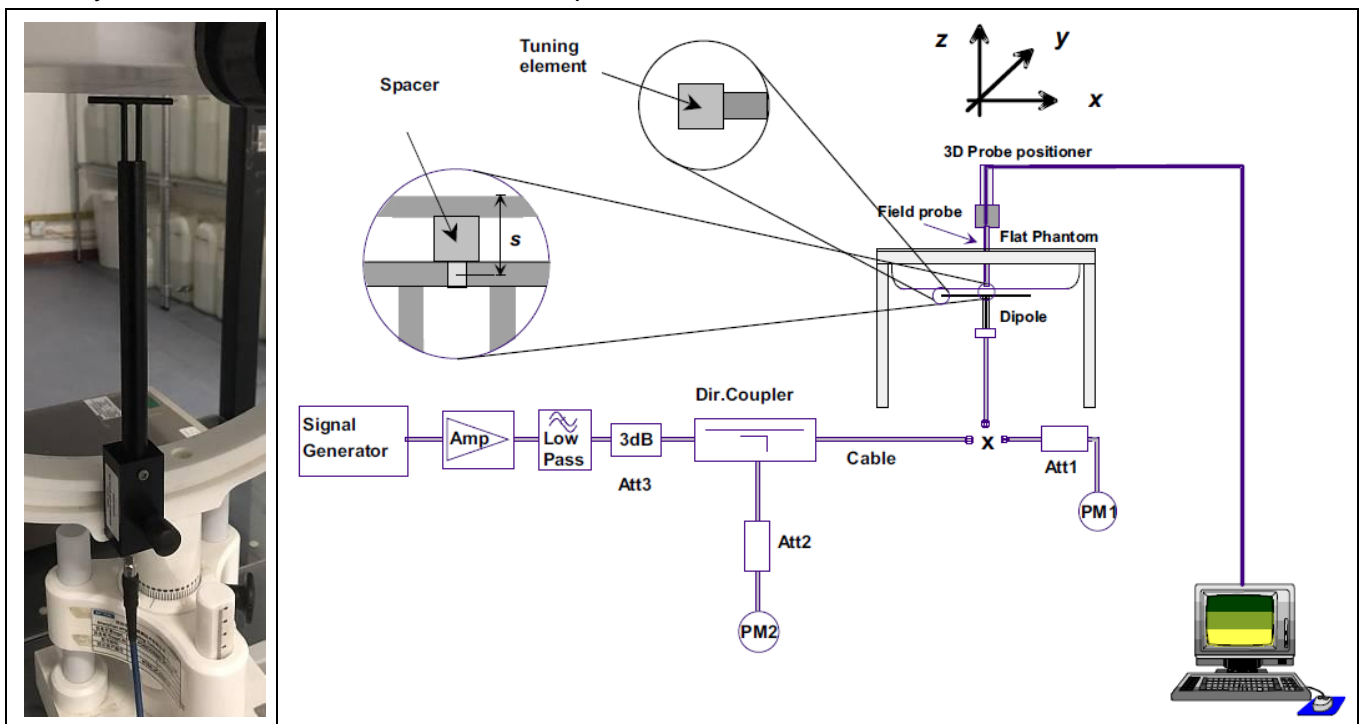
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.88	0.90	21.5 °C	Jun. 04, 2024
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.53	0.91	21.5 °C	May. 30, 2024
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.34	1.40	21.7 °C	May. 28, 2024
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.78	1.44	21.5 °C	Jun. 03, 2024
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	37.72	1.76	21.5 °C	Jun. 05, 2024
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.17	2.02	21.4 °C	May. 29, 2024
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	34.87	4.60	21.5 °C	Jun. 07, 2024
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.30	5.25	21.9 °C	Jun. 06, 2024

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100mW (below 5GHz) or 100mW (above 5GHz). To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of $\pm 10\%$. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Target SAR (1W)		Measured SAR		Liquid Temp.	Delta (%)		Test Date
	$(\pm 10\%)$		(Normalized to 1W)			1-g ($\pm 10\%$)	10-g ($\pm 10\%$)	
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)				
750MHz	8.60 (7.74~9.46)	5.78 (5.20~6.36)	8.81	5.60	21.5 °C	2.44%	-3.11%	Jun. 04, 2024
835MHz	9.40 (8.46~10.34)	6.28 (5.65~6.91)	8.80	6.13	21.5 °C	-6.38%	-2.39%	May. 30, 2024
1800MHz	37.06 (33.35~40.77)	20.01 (18.01~22.01)	39.52	19.95	21.7 °C	6.64%	-0.30%	May. 28, 2024
1900MHz	39.69 (35.72~43.66)	20.92 (18.83~23.01)	36.63	19.48	21.5 °C	-7.71%	-6.88%	Jun. 03, 2024
2450MHz	50.05 (45.05~55.06)	23.80 (21.42~26.18)	51.39	24.43	21.5 °C	2.68%	2.65%	Jun. 05, 2024
2600MHz	54.16 (48.74~59.58)	24.85 (22.37~27.34)	50.05	25.05	21.4 °C	-7.59%	0.80%	May. 29, 2024
5200MHz	162.59 (146.33~178.85)	56.21 (50.59~61.83)	155.94	55.26	21.5 °C	-4.09%	-1.69%	Jun. 07, 2024
5800MHz	182.20 (163.98~200.42)	61.32 (55.19~67.45)	177.78	61.60	21.9 °C	-2.43%	0.46%	Jun. 06, 2024

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Tablet host platform exposure conditions

Refer to KDB616217 D04, when the modular approach is used, transmitters and modules must be initially tested for standalone operations in generic host conditions according to the following minimum test separation distance and antenna installation requirements for incorporation in the tablet platform. The separation distance required for incorporation in qualified hosts is described in KDB 447498; item 5) of section 4.1 and item 1) of section 5.2.2 etc.

- ≤ 5 mm between the antenna and user for both back surface and edge exposure conditions
- the antennas used by the host must have been tested for equipment approval or qualify for SAR test exclusion
- the antenna polarization, physical orientation, rotation and installation configurations used by the host must have been tested for compliance or qualify for test exclusion
- when the *SAR Test Exclusion Threshold* in KDB 447498 applies, a *test separation distance* of 5 mm is required to determine test exclusion for the tablet platform

The antennas embedded in tablets are typically ≤ 5 mm from the outer housing. The required antenna to user test separation distance is a “not to exceed test” distance required to apply the modular approach. Instead of the typical zero gap tablet edge test requirement between the edge of a tablet and the user, when an antenna has been tested at ≤ 5 mm according to the modular approach it can be incorporated into tablets with at least twice the tested distance from the outer housing of the tablet edge; otherwise, the tablet edge zero gap test requirement applies. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850		Burst-Averaged output Power (dBm)			Frame-Averaged output Power (dBm)			
Tx Channel	Tune -	128	189	251	Tune -	128	189	251
Frequency (MHz)	up (dBm)	824.2	836.4	848.8	up (dBm)	824.2	836.4	848.8
GSM (GMSK)	33.00	32.84	32.71	32.62	23.97	23.81	23.68	23.59
GPRS(GMSK, 1 TS)	33.00	32.88	32.72	32.67	23.97	23.85	23.69	23.64
GPRS(GMSK, 2 TS)	32.00	31.98	31.73	31.69	25.98	25.96	25.71	25.67
GPRS(GMSK, 3 TS)	30.50	30.02	29.79	29.73	26.24	25.76	25.53	25.47
GPRS(GMSK, 4 TS)	29.00	28.68	28.50	28.40	25.99	25.67	25.49	25.39
EGPRS(8PSK, 1 TS)	32.50	32.03	31.49	31.33	23.47	23.00	22.46	22.30
EGPRS(8PSK, 2 TS)	31.00	30.99	30.94	30.61	24.98	24.97	24.92	24.59
EGPRS(8PSK, 3 TS)	29.00	28.85	28.54	28.44	24.74	24.59	24.28	24.18
EGPRS(8PSK, 4 TS)	28.00	27.63	27.52	27.21	24.99	24.62	24.51	24.20
Band GSM1900		Burst-Averaged output Power (dBm)			Frame-Averaged output Power (dBm)			
Tx Channel	Tune -	512	661	810	Tune -	512	661	810
Frequency (MHz)	up (dBm)	1850.2	1880	1909.8	up (dBm)	1850.2	1880	1909.8
GSM (GMSK)	31.00	30.28	30.80	30.60	21.97	21.25	21.77	21.57
GPRS(GMSK, 1 TS)	31.00	30.32	30.78	30.66	21.97	21.29	21.75	21.63
GPRS(GMSK, 2 TS)	30.00	29.37	29.77	29.58	23.98	23.35	23.75	23.56
GPRS(GMSK, 3 TS)	28.00	27.24	27.71	27.54	23.74	22.98	23.45	23.28
GPRS(GMSK, 4 TS)	26.50	25.95	26.41	26.37	23.49	22.94	23.40	23.36
EGPRS(8PSK, 1 TS)	28.00	27.30	27.88	26.47	18.97	18.27	18.85	17.44
EGPRS(8PSK, 2 TS)	26.50	26.40	26.08	25.46	20.48	20.38	20.06	19.44
EGPRS(8PSK, 3 TS)	24.50	24.20	24.02	23.22	20.24	19.94	19.76	18.96
EGPRS(8PSK, 4 TS)	23.00	22.77	22.66	22.12	19.99	19.76	19.65	19.11

Note: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots. The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9.03 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3.01 dB

7.2. WCDMA Conducted Power

WCDMA Band 2		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538	
Frequency (MHz)		1852.4	1880	1907.6	
RMC12.2K	24.00	23.21	23.37	23.53	
HSDPA Sub 1	23.00	22.31	22.46	22.57	
HSDPA Sub 2	22.50	21.78	22.08	22.11	
HSDPA Sub 3	21.50	20.61	20.70	21.09	
HSDPA Sub 4	21.50	20.89	20.99	21.14	
HSUPA Sub 1	22.50	21.15	22.24	22.32	
HSUPA Sub 2	22.50	22.19	22.24	22.41	
HSUPA Sub 3	21.50	20.27	21.19	21.38	
HSUPA Sub 4	23.00	22.22	22.39	22.52	
HSUPA Sub 5	22.00	20.83	21.63	21.48	
WCDMA Band 4		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513	
Frequency (MHz)		1712.4	1732.6	1752.6	
RMC12.2K	23.50	23.16	22.93	22.78	
HSDPA Sub 1	22.50	22.23	22.00	21.82	
HSDPA Sub 2	22.00	21.80	21.56	21.24	
HSDPA Sub 3	21.00	20.77	20.37	20.19	
HSDPA Sub 4	21.00	20.87	20.63	20.46	
HSUPA Sub 1	22.00	20.84	21.76	21.66	
HSUPA Sub 2	22.50	22.20	21.88	21.70	
HSUPA Sub 3	21.00	20.25	20.74	20.39	
HSUPA Sub 4	22.50	22.24	21.98	21.81	
HSUPA Sub 5	21.50	20.98	21.22	21.10	
WCDMA Band 5		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233	
Frequency (MHz)		826.4	836.4	846.6	
RMC12.2K	24.00	23.45	23.51	23.41	
HSDPA Sub 1	23.00	22.51	22.56	22.43	
HSDPA Sub 2	22.50	22.05	22.09	22.01	
HSDPA Sub 3	21.50	21.18	21.06	20.90	
HSDPA Sub 4	21.50	20.66	21.22	21.16	
HSUPA Sub 1	22.50	21.24	22.39	22.30	

HSUPA Sub 2	22.50	22.42	22.35	22.34
HSUPA Sub 3	21.50	20.47	21.24	21.38
HSUPA Sub 4	23.00	22.52	22.55	22.45
HSUPA Sub 5	22.00	21.18	21.78	21.81

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3	
LTE Band 2	1.4MHz	QPSK	1	0	19.00	18.44	17.43	17.48	
			1	2	19.00	18.52	17.49	17.59	
			1	5	19.00	18.42	17.39	17.53	
			3	0	19.00	18.55	17.52	17.63	
			3	1	19.00	18.57	17.56	17.67	
			3	2	19.00	18.57	17.53	17.66	
		16QAM	1	0	18.00	17.77	16.63	16.76	
			1	2	18.00	17.88	16.76	17.01	
			1	5	18.00	17.85	16.79	16.78	
			3	0	18.00	17.54	16.55	16.66	
			3	1	18.00	17.61	16.57	16.73	
			3	2	18.00	17.56	16.57	16.72	
			6	0	17.00	16.70	15.66	15.82	
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5	
LTE Band 2	3MHz	QPSK	1	0	18.50	18.30	17.32	17.37	
			1	7	18.50	18.41	17.41	17.53	
			1	14	18.50	18.26	17.29	17.43	
			8	0	18.00	17.51	16.50	16.62	
			8	4	18.00	17.56	16.56	16.68	
			8	7	18.00	17.51	16.50	16.63	
			15	0	17.50	17.49	16.48	16.60	
		16QAM	1	0	18.00	17.59	16.64	16.70	
			1	7	18.00	17.68	16.76	16.79	
			1	14	18.00	17.64	16.66	16.81	
			8	0	17.00	16.54	15.57	15.65	

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5		
			8	4	17.00	16.64	15.62	15.73		
			8	7	17.00	16.54	15.58	15.69		
			15	0	17.00	16.50	15.52	15.62		
LTE Band 2	5MHz	QPSK	1	0	19.00	18.56	17.59	17.59		
			1	12	19.00	18.68	17.71	17.76		
			1	24	19.00	18.47	17.50	17.70		
			12	0	18.00	17.57	16.57	16.66		
			12	6	18.00	17.61	16.63	16.76		
			12	11	18.00	17.53	16.54	16.69		
		16QAM	25	0	18.00	17.55	16.59	16.67		
			1	0	18.00	17.91	16.81	16.96		
			1	12	18.00	17.93	17.02	17.07		
			1	24	18.00	17.80	16.72	16.88		
			12	0	17.00	16.55	15.54	15.66		
			12	6	17.00	16.63	15.60	15.75		
		LTE Band 2	10MHz	QPSK	1	0	19.00	18.66	17.68	17.57
					1	24	19.00	18.58	17.66	17.76
1	49				19.00	18.33	17.60	17.76		
25	0				18.00	17.51	16.57	16.60		
25	12				18.00	17.53	16.62	16.69		
25	24				18.00	17.45	16.53	16.63		
16QAM	50			0	17.50	17.48	16.57	16.64		
	1			0	18.00	18.00	17.05	16.92		
	1			24	18.00	17.97	16.89	17.05		
	1			49	18.00	17.75	16.81	17.16		
	25			0	17.00	16.52	15.59	15.63		
	25			12	17.00	16.57	15.66	15.72		
LTE Band 2	10MHz			16QAM	25	24	17.00	16.48	15.55	15.69
					50	0	17.00	16.50	15.56	15.64
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)				

	Width		Configuration		(dBm)			
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	19.00	18.61	17.70	17.48
			1	37	19.00	18.47	17.68	17.68
			1	74	19.00	18.06	17.54	17.76
			36	0	17.50	17.48	16.60	16.50
			36	18	17.50	17.39	16.61	16.60
			36	37	17.50	17.27	16.51	16.62
			75	0	17.50	17.38	16.58	16.57
		16QAM	1	0	18.00	18.00	16.89	16.72
			1	37	18.00	17.80	16.95	16.93
			1	74	18.00	17.30	16.81	16.98
			36	0	16.50	16.48	15.61	15.53
			36	18	16.50	16.41	15.60	15.60
			36	37	16.50	16.27	15.53	15.62
			75	0	16.50	16.38	15.57	15.58
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	19.00	18.50	18.64	18.46
			1	49	19.00	18.37	17.69	17.59
			1	99	19.00	17.78	17.43	17.68
			50	0	17.50	17.37	16.60	16.44
			50	24	17.50	17.31	16.65	16.58
			50	49	17.50	17.24	16.48	16.53
			100	0	17.50	17.28	16.53	16.49
		16QAM	1	0	18.00	17.89	17.00	16.74
			1	49	18.00	17.58	17.04	16.79
			1	99	18.00	16.99	16.69	16.94
			50	0	16.50	16.36	15.60	15.46
			50	24	16.50	16.30	15.64	15.60
			50	49	16.50	16.23	15.48	15.53
			100	0	16.50	16.27	15.52	15.49

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB	RB		19957/1710.	20175/1732.	20393/1754.

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	1.4MHz	QPSK	1	0	19.50	19.19	18.85	18.54
			1	2	19.50	19.28	18.93	18.64
			1	5	19.50	19.19	18.82	18.56
			3	0	19.50	19.29	18.95	18.65
			3	1	19.50	19.34	18.96	18.66
			3	2	19.50	19.31	18.94	18.66
		16QAM	6	0	18.50	18.39	18.02	17.74
			1	0	19.00	18.59	18.07	17.91
			1	2	19.00	18.52	18.30	17.96
			1	5	19.00	18.57	18.06	17.89
			3	0	18.50	18.29	17.96	17.72
			3	1	18.50	18.34	17.93	17.71
			3	2	18.50	18.35	18.03	17.63
			6	0	17.50	17.45	17.15	16.85
LTE Band 4	3MHz	QPSK	1	0	19.50	19.07	18.74	18.42
			1	7	19.50	19.19	18.82	18.56
			1	14	19.50	19.06	18.73	18.41
			8	0	18.50	18.26	17.94	17.64
			8	4	18.50	18.33	18.00	17.70
			8	7	18.50	18.28	17.94	17.64
			15	0	18.50	18.28	17.92	17.64
		16QAM	1	0	18.50	18.43	18.05	17.70
			1	7	18.50	18.43	18.10	17.82
			1	14	18.50	18.45	18.13	17.62
			8	0	17.50	17.30	16.99	16.73
			8	4	17.50	17.41	17.07	16.79
			8	7	17.50	17.33	17.00	16.70
			15	0	17.50	17.27	16.93	16.65
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE	5MHz	QPSK	1	0	19.50	19.34	18.98	18.74

Band 4			1	12	19.50	19.44	19.11	18.83
			1	24	19.50	19.31	18.98	18.69
			12	0	18.50	18.33	18.00	17.72
			12	6	18.50	18.40	18.08	17.81
			12	11	18.50	18.32	18.00	17.75
			25	0	18.50	18.34	18.00	17.72
			25	11	18.50	18.32	18.00	17.75
		16QAM	1	0	19.00	18.68	18.33	17.98
			1	12	19.00	18.69	18.47	18.24
			1	24	19.00	18.66	18.36	18.04
			12	0	17.50	17.31	17.00	16.70
			12	6	17.50	17.40	17.08	16.83
			12	11	17.50	17.34	16.99	16.77
			25	0	17.50	17.34	17.05	16.77
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	19.50	19.42	19.10	18.91
			1	24	19.50	19.41	19.10	18.88
			1	49	19.50	19.31	19.05	18.79
			25	0	18.50	18.31	18.00	17.75
			25	12	18.50	18.37	18.07	17.84
			25	24	18.50	18.28	18.00	17.78
			50	0	18.50	18.31	18.02	17.80
		16QAM	1	0	19.00	18.73	18.31	18.24
			1	24	19.00	18.75	18.51	18.27
			1	49	19.00	18.57	18.33	18.09
			25	0	17.50	17.34	17.04	16.79
			25	12	17.50	17.38	17.10	16.86
			25	24	17.50	17.29	17.03	16.81
			50	0	17.50	17.31	17.03	16.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	19.50	19.36	19.09	18.93
			1	37	19.50	19.39	19.16	18.94
			1	74	19.50	19.19	19.04	18.78

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745		
			36	0	18.50	18.33	18.04	17.84		
			36	18	18.50	18.31	18.06	17.85		
			36	37	18.50	18.22	18.02	17.84		
			75	0	18.50	18.28	18.05	17.84		
		16QAM	1	0	19.00	18.63	18.45	18.18		
			1	37	19.00	18.62	18.51	18.25		
			1	74	19.00	18.40	18.26	18.17		
			36	0	17.50	17.34	17.04	16.84		
			36	18	17.50	17.32	17.08	16.87		
			36	37	17.50	17.21	17.02	16.82		
			75	0	17.50	17.28	17.05	16.85		
			LTE Band 4	20MHz	QPSK	1	0	19.50	19.27	19.02
		1				49	19.50	19.31	19.13	18.98
		1				99	19.50	19.03	18.91	18.70
50	0	18.50				18.30	18.04	17.87		
50	24	18.50				18.29	18.10	17.95		
50	49	18.50				18.16	18.04	17.93		
100	0	18.50				18.22	18.05	17.89		
16QAM	1	0			19.00	18.54	18.35	18.24		
	1	49			19.00	18.71	18.49	18.29		
	1	99			19.00	18.38	18.30	18.10		
	50	0			17.50	17.30	17.07	16.87		
	50	24			17.50	17.29	17.12	16.95		
	50	49			17.50	17.17	17.04	16.93		
	100	0			17.50	17.21	17.03	16.87		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	24.00	23.53	23.33	23.41
			1	2	24.00	23.64	23.36	23.50
			1	5	24.00	23.53	23.29	23.42
			3	0	24.00	23.65	23.38	23.53
			3	1	24.00	23.66	23.41	23.56

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
		16QAM	3	2	24.00	23.62	23.39	23.51
			6	0	23.00	22.74	22.50	22.63
			1	0	23.00	22.85	22.55	22.67
			1	2	23.00	22.92	22.61	22.78
			1	5	23.00	22.71	22.51	22.71
			3	0	23.00	22.58	22.37	22.55
			3	1	23.00	22.61	22.36	22.50
			3	2	23.00	22.65	22.41	22.47
			6	0	22.00	21.83	21.56	21.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	3MHz	QPSK	1	0	24.00	23.43	23.20	23.29
			1	7	24.00	23.51	23.28	23.44
			1	14	24.00	23.38	23.17	23.31
			8	0	23.00	22.62	22.37	22.52
			8	4	23.00	22.66	22.46	22.59
			8	7	23.00	22.61	22.39	22.54
		16QAM	15	0	23.00	22.62	22.39	22.53
			1	0	23.00	22.71	22.38	22.52
			1	7	23.00	22.76	22.59	22.63
			1	14	23.00	22.61	22.40	22.52
			8	0	22.00	21.66	21.39	21.59
			8	4	22.00	21.70	21.52	21.65
			8	7	22.00	21.64	21.41	21.58
15	0	22.00	21.61	21.37	21.52			
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	24.00	23.66	23.44	23.51
			1	12	24.00	23.72	23.56	23.69
			1	24	24.00	23.57	23.41	23.50
			12	0	23.00	22.68	22.42	22.57
			12	6	23.00	22.73	22.53	22.66
			12	11	23.00	22.64	22.48	22.64
		16QAM	25	0	23.00	22.70	22.46	22.63
			1	0	23.00	22.88	22.70	22.76
			1	12	23.00	22.94	22.78	22.90

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	24	23.00	22.84	22.58	22.68
			12	0	22.00	21.64	21.38	21.58
			12	6	22.00	21.73	21.50	21.66
			12	11	22.00	21.64	21.49	21.64
			25	0	22.00	21.70	21.47	21.64
			1	0	24.00	23.77	23.59	23.54
			1	24	24.00	23.69	23.53	23.62
		16QAM	1	49	24.00	23.55	23.53	23.63
			25	0	23.00	22.69	22.43	22.67
			25	12	23.00	22.71	22.55	22.63
			25	24	23.00	22.59	22.48	22.65
			50	0	23.00	22.67	22.48	22.67
			1	0	23.00	22.99	22.87	22.87
			1	24	23.00	23.00	22.88	22.86
1	49	23.00	22.82	22.70	22.85			
25	0	22.00	21.68	21.44	21.68			
25	12	22.00	21.72	21.56	21.63			
25	24	22.00	21.59	21.47	21.65			
50	0	22.00	21.64	21.45	21.66			

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	23.50	22.46	23.14	23.32
			1	12	23.50	22.70	23.25	23.44
			1	24	23.50	22.59	23.15	23.33
			12	0	22.50	21.57	22.25	22.40
			12	6	22.50	21.66	22.30	22.45
			12	11	22.50	21.66	22.22	22.42
			25	0	22.50	21.65	22.28	22.44
		16QAM	1	0	23.00	21.65	22.43	22.61
			1	12	23.00	21.97	22.50	22.58
			1	24	23.00	21.79	22.31	22.47
			12	0	21.50	20.50	21.24	21.37
12	6	21.50	20.64	21.26	21.45			

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
			12	11	21.50	20.62	21.19	21.39
			25	0	21.50	20.62	21.28	21.44
LTE Band 7	10MHz	QPSK	1	0	24.00	22.56	23.26	23.50
			1	24	24.00	22.71	23.30	23.47
			1	49	24.00	22.63	23.30	23.43
			25	0	23.00	21.60	22.34	22.43
			25	12	23.00	21.71	22.34	22.51
			25	24	23.00	21.69	22.23	22.45
			50	0	22.50	21.72	22.36	22.46
		16QAM	1	0	23.00	21.87	22.39	22.61
			1	24	23.00	21.90	22.46	22.68
			1	49	23.00	21.89	22.53	22.66
			25	0	21.50	20.62	21.34	21.39
			25	12	21.50	20.71	21.32	21.48
			25	24	21.50	20.69	21.23	21.44
			50	0	21.50	20.68	21.29	21.46
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	24.00	22.56	23.17	23.48
			1	37	24.00	22.68	23.31	23.50
			1	74	24.00	22.60	23.21	23.35
			36	0	22.50	21.58	22.29	22.43
			36	18	22.50	21.67	22.30	22.47
			36	37	22.50	21.64	22.24	22.42
			75	0	22.50	21.68	22.30	22.45
		16QAM	1	0	23.00	21.76	22.32	22.59
			1	37	23.00	21.95	22.51	22.66
			1	74	23.00	21.82	22.47	22.48
			36	0	21.50	20.58	21.26	21.37
			36	18	21.50	20.62	21.30	21.46
			36	37	21.50	20.65	21.23	21.39
			75	0	21.50	20.63	21.25	21.40
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

			RB	RB		20850/2510	21100/2535	21350/2560
			Size	Offset				
LTE Band 7	20MHz	QPSK	1	0	24.00	22.42	23.02	23.34
			1	49	24.00	22.63	23.25	23.52
			1	99	24.00	22.60	23.15	23.28
			50	0	23.00	21.59	22.35	22.39
			50	24	23.00	21.68	22.36	22.56
			50	49	23.00	21.72	22.20	22.50
			100	0	22.50	21.63	22.25	22.43
		16QAM	1	0	23.00	21.61	22.23	22.59
			1	49	23.00	21.93	22.54	22.77
			1	99	23.00	21.80	22.36	22.46
			50	0	22.00	20.57	21.30	21.34
			50	24	22.00	20.66	21.36	21.52
			50	49	22.00	20.68	21.17	21.46
			100	0	21.50	20.58	21.24	21.39

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	22.50	22.27	22.32	22.12
			1	2	22.50	22.39	22.36	22.19
			1	5	22.50	22.30	22.28	22.08
			3	0	22.50	22.41	22.41	22.24
			3	1	22.50	22.43	22.41	22.21
			3	2	22.50	22.44	22.44	22.19
			6	0	22.00	21.50	21.52	21.31
		16QAM	1	0	22.00	21.50	21.52	21.31
			1	2	22.00	21.71	21.70	21.39
			1	5	22.00	21.55	21.65	21.27
			3	0	21.50	21.36	21.38	21.18
			3	1	21.50	21.38	21.35	21.26
			3	2	21.50	21.42	21.42	21.13
			6	0	21.00	20.60	20.63	20.36
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE	3MHz	QPSK	1	0	22.50	22.26	22.22	22.11

Band 12			1	7	22.50	22.32	22.32	22.14
			1	14	22.50	22.22	22.19	21.98
			8	0	22.00	21.42	21.41	21.29
			8	4	22.00	21.50	21.49	21.32
			8	7	22.00	21.43	21.43	21.24
			15	0	21.50	21.43	21.44	21.28
			15	0	21.50	21.43	21.44	21.28
		16QAM	1	0	22.00	21.41	21.42	21.27
			1	7	22.00	21.48	21.58	21.45
			1	14	22.00	21.38	21.49	21.16
			8	0	21.00	20.49	20.45	20.30
			8	4	21.00	20.52	20.54	20.36
			8	7	21.00	20.50	20.49	20.29
			15	0	20.50	20.44	20.45	20.28
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.00	22.48	22.45	22.41
			1	12	23.00	22.56	22.55	22.43
			1	24	23.00	22.43	22.43	22.23
			12	0	22.00	21.56	21.48	21.47
			12	6	22.00	21.56	21.56	21.43
			12	11	22.00	21.55	21.51	21.31
			25	0	22.00	21.57	21.48	21.40
		16QAM	1	0	22.00	21.67	21.71	21.72
			1	12	22.00	21.77	21.91	21.58
			1	24	22.00	21.60	21.69	21.54
			12	0	21.00	20.56	20.46	20.46
			12	6	21.00	20.55	20.54	20.42
			12	11	21.00	20.54	20.49	20.29
			25	0	21.00	20.58	20.49	20.38
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.00	22.59	22.75	22.53
			1	24	23.00	22.55	22.56	22.54
			1	49	23.00	22.51	22.46	22.31
			25	0	22.00	21.47	21.42	21.54
			25	12	22.00	21.60	21.57	21.50

			25	24	22.00	21.61	21.36	21.30	
			50	0	22.00	21.58	21.41	21.44	
		16QAM		1	0	22.00	21.85	21.80	21.88
				1	24	22.00	21.74	21.88	21.82
				1	49	22.00	21.71	21.74	21.59
				25	0	21.00	20.49	20.42	20.55
				25	12	21.00	20.58	20.59	20.53
				25	24	21.00	20.61	20.39	20.31
				50	0	21.00	20.56	20.39	20.44

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	22.00	20.68	21.33	20.72
			1	12	22.00	21.52	21.54	20.23
			1	24	22.00	21.69	20.35	20.73
			12	0	22.00	20.95	21.45	20.35
			12	6	22.00	21.36	21.41	20.18
			12	11	22.00	21.51	20.93	20.93
			25	0	21.50	21.23	21.19	20.15
		16QAM	1	0	22.00	20.84	21.40	20.93
			1	12	22.00	21.57	21.77	20.48
			1	24	22.00	21.74	20.62	20.93
			12	0	21.00	20.40	20.49	20.33
			12	6	21.00	20.57	20.56	20.16
			12	11	21.00	20.54	20.36	19.91
			25	0	21.00	20.52	20.48	20.16
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
RB Size	RB Offset	23780/709	23790/710	23800/711				
LTE Band 17	10MHz	QPSK	1	0	22.00	20.13	20.41	20.61
			1	24	22.00	21.51	21.33	20.90
			1	49	22.00	20.76	20.56	20.40
			25	0	21.50	20.90	21.04	21.05
			25	12	21.50	21.26	21.08	20.79
			25	24	21.50	20.70	20.36	20.05
			50	0	21.00	20.82	20.73	20.59
		16QAM	1	0	22.00	20.31	20.61	20.83

			1	24	22.00	21.75	21.63	21.18
			1	49	22.00	20.02	20.74	20.72
			25	0	21.00	20.44	20.49	20.53
			25	12	21.00	20.58	20.57	20.56
			25	24	21.00	20.33	20.29	20.08
			50	0	20.50	20.36	20.41	20.42

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE Band 26a	1.4MHz	QPSK	1	0	23.00	22.53	22.55	22.47
			1	2	23.00	22.55	22.61	22.55
			1	5	23.00	22.51	22.52	22.42
			3	0	23.00	22.62	22.64	22.56
			3	1	23.00	22.64	22.65	22.56
			3	2	23.00	22.62	22.64	22.57
			6	0	22.00	21.72	21.73	21.65
		16QAM	1	0	22.00	21.69	21.71	21.65
			1	2	22.00	21.88	21.88	21.74
			1	5	22.00	21.81	21.70	21.76
			3	0	22.00	21.59	21.56	21.59
			3	1	22.00	21.65	21.69	21.59
			3	2	22.00	21.62	21.65	21.47
			6	0	21.00	20.73	20.81	20.77
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26705/818.5	26740/819	26775/822.5
LTE Band 26a	3MHz	QPSK	1	0	23.00	22.37	22.46	22.49
			1	7	23.00	22.45	22.52	22.51
			1	14	23.00	22.37	22.49	22.36
			8	0	22.00	21.59	21.65	21.64
			8	4	22.00	21.65	21.70	21.67
			8	7	22.00	21.59	21.68	21.59
			15	0	22.00	21.60	21.69	21.61
		16QAM	1	0	22.00	21.51	21.69	21.64
			1	7	22.00	21.74	21.71	21.72
			1	14	22.00	21.55	21.73	21.59
			8	0	21.00	20.65	20.70	20.71

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5
			8	4	21.00	20.72	20.75	20.69
			8	7	21.00	20.63	20.71	20.66
			15	0	21.00	20.58	20.68	20.60
LTE Band 26a	5MHz	QPSK	1	0	23.00	22.64	22.70	22.63
			1	12	23.00	22.73	22.78	22.82
			1	24	23.00	22.60	22.71	22.60
			12	0	22.00	21.65	21.74	21.70
			12	6	22.00	21.71	21.81	21.78
			12	11	22.00	21.65	21.76	21.68
		16QAM	25	0	22.00	21.68	21.76	21.72
			1	0	22.50	21.84	21.98	21.92
			1	12	22.50	22.06	22.03	22.08
			1	24	22.50	21.82	22.05	21.87
			12	0	21.00	20.64	20.73	20.66
			12	6	21.00	20.71	20.79	20.76
			12	11	21.00	20.62	20.74	20.68
			25	0	21.00	20.65	20.77	20.71
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		N/A	26740/819	N/A
LTE Band 26a	10MHz	QPSK	1	0	23.00	N/A	22.81	N/A
			1	24	23.00	N/A	22.81	N/A
			1	49	23.00	N/A	22.68	N/A
			25	0	22.00	N/A	21.75	N/A
			25	12	22.00	N/A	21.82	N/A
			25	24	22.00	N/A	21.73	N/A
			50	0	22.00	N/A	21.78	N/A
		16QAM	1	0	22.50	N/A	22.09	N/A
			1	24	22.50	N/A	22.04	N/A
			1	49	22.50	N/A	21.97	N/A
			25	0	21.00	N/A	20.74	N/A
			25	12	21.00	N/A	20.84	N/A
			25	24	21.00	N/A	20.75	N/A
			50	0	21.00	N/A	20.75	N/A

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	23.00	22.44	22.26	22.48
			1	2	23.00	22.45	22.37	22.51
			1	5	23.00	22.39	22.31	22.47
			3	0	23.00	22.53	22.37	22.55
			3	1	23.00	22.55	22.38	22.55
			3	2	23.00	22.50	22.39	22.54
			6	0	22.00	21.60	21.49	21.65
		16QAM	1	0	22.00	21.64	21.56	21.60
			1	2	22.00	21.68	21.55	21.68
			1	5	22.00	21.60	21.41	21.61
			3	0	22.00	21.45	21.39	21.57
			3	1	22.00	21.53	21.40	21.52
			3	2	22.00	21.54	21.36	21.59
			6	0	21.00	20.71	20.55	20.72
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26805/825.5	26915/836.5	27025/847.5
LTE Band 26b	3MHz	QPSK	1	0	22.50	22.30	22.17	22.35
			1	7	22.50	22.38	22.26	22.44
			1	14	22.50	22.25	22.17	22.36
			8	0	22.00	21.48	21.37	21.56
			8	4	22.00	21.53	21.47	21.62
			8	7	22.00	21.50	21.40	21.56
			15	0	22.00	21.50	21.40	21.57
		16QAM	1	0	22.00	21.52	21.30	21.63
			1	7	22.00	21.55	21.48	21.69
			1	14	22.00	21.48	21.45	21.59
			8	0	21.00	20.55	20.44	20.63
			8	4	21.00	20.58	20.50	20.69
			8	7	21.00	20.55	20.42	20.61
			15	0	21.00	20.47	20.38	20.57
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26815/826.5	26915/836.5	27015/846.5

LTE Band 26b	5MHz	QPSK	1	0	23.00	22.56	22.47	22.56
			1	12	23.00	22.62	22.54	22.70
			1	24	23.00	22.48	22.47	22.57
			12	0	22.00	21.57	21.45	21.69
			12	6	22.00	21.61	21.51	21.70
			12	11	22.00	21.54	21.48	21.64
			25	0	22.00	21.51	21.47	21.65
		16QAM	1	0	22.50	21.79	21.72	21.79
			1	12	22.50	21.85	21.86	22.04
			1	24	22.50	21.71	21.72	21.89
			12	0	21.00	20.56	20.42	20.61
			12	6	21.00	20.58	20.50	20.70
			12	11	21.00	20.52	20.49	20.56
			25	0	21.00	20.57	20.47	20.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
LTE Band 26b	10MHz	QPSK	1	0	23.00	22.64	22.53	22.56
			1	24	23.00	22.61	22.53	22.72
			1	49	23.00	22.57	22.60	22.68
			25	0	22.00	21.52	21.46	21.64
			25	12	22.00	21.52	21.54	21.69
			25	24	22.00	21.49	21.51	21.61
			50	0	22.00	21.54	21.51	21.64
		16QAM	1	0	22.00	21.93	21.87	21.85
			1	24	22.00	21.92	21.90	22.00
			1	49	22.00	21.79	21.91	21.86
			25	0	21.00	20.52	20.47	20.66
			25	12	21.00	20.57	20.55	20.70
			25	24	21.00	20.52	20.51	20.62
			50	0	21.00	20.54	20.51	20.62
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	QPSK	1	0	23.00	22.59	22.50	22.49
			1	37	23.00	22.57	22.56	22.65
			1	74	23.00	22.50	22.62	22.63
			36	0	22.00	21.48	21.52	21.50

			36	18	22.00	21.53	21.51	21.62
			36	37	22.00	21.55	21.51	21.60
			75	0	22.00	21.52	21.54	21.59
		16QAM	1	0	22.00	21.88	21.80	21.66
			1	37	22.00	21.86	21.76	21.96
			1	74	22.00	21.67	21.84	21.80
			36	0	21.00	20.47	20.52	20.50
			36	18	21.00	20.54	20.51	20.64
			36	37	21.00	20.53	20.50	20.60
			75	0	21.00	20.49	20.53	20.57

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40365/2567.5	40740/2605	41115/2642.5
LTE Band 41	5MHz	QPSK	1	0	24.00	23.52	23.70	23.88
			1	12	24.00	23.63	23.86	23.96
			1	24	24.00	23.50	23.81	23.78
			12	0	23.00	22.55	22.77	22.94
			12	6	23.00	22.62	22.86	22.96
			12	11	23.00	22.58	22.81	22.89
			25	0	23.00	22.52	22.77	22.88
		16QAM	1	0	23.50	22.66	22.85	23.02
			1	12	23.50	22.77	23.02	23.10
			1	24	23.50	22.67	22.98	22.93
			12	0	22.00	21.57	21.78	21.93
			12	6	22.00	21.62	21.86	21.97
			12	11	22.00	21.57	21.82	21.89
			25	0	22.00	21.59	21.81	21.96
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40390/2570	40740/2605	41090/2640
LTE Band 41	10MHz	QPSK	1	0	24.00	23.62	23.72	23.95
			1	24	24.00	23.63	23.86	23.99
			1	49	24.00	23.63	23.91	23.85
			25	0	23.00	22.57	22.80	22.92
			25	12	23.00	22.63	22.85	22.98
			25	24	23.00	22.61	22.81	22.90
			50	0	23.00	22.66	22.86	23.00

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40415/2572.5	40740/2605	41065/2637.5
		16QAM	1	0	23.50	22.78	22.89	23.12
			1	24	23.50	22.80	23.03	23.16
			1	49	23.50	22.79	23.09	23.01
			25	0	22.50	21.60	21.83	21.96
			25	12	22.50	21.65	21.87	22.02
			25	24	22.50	21.62	21.83	21.92
			50	0	22.00	21.65	21.86	22.00
LTE Band 41	15MHz	QPSK	1	0	24.00	23.55	23.64	23.85
			1	37	24.00	23.64	23.87	23.96
			1	74	24.00	23.70	23.88	23.83
			36	0	23.00	22.59	22.77	22.87
			36	18	23.00	22.67	22.82	22.97
			36	37	23.00	22.64	22.82	22.90
			75	0	23.00	22.62	22.82	22.91
		16QAM	1	0	23.50	22.72	22.81	23.02
			1	37	23.50	22.79	23.01	23.12
			1	74	23.50	22.82	23.03	22.96
			36	0	22.00	21.54	21.72	21.84
			36	18	22.00	21.64	21.80	21.94
			36	37	22.00	21.61	21.79	21.87
			75	0	22.00	21.62	21.79	21.92
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		40440/2575	40740/2605	41040/2635
LTE Band 41	20MHz	QPSK	1	0	24.00	23.49	23.58	23.73
			1	49	24.00	23.70	23.85	23.96
			1	99	24.00	23.65	23.79	23.73
			50	0	23.00	22.61	22.80	22.82
			50	24	23.00	22.79	22.88	22.97
			50	49	23.00	22.69	22.84	22.94
			100	0	23.00	22.69	22.80	22.90
		16QAM	1	0	23.50	22.64	22.74	22.90
			1	49	23.50	22.84	23.01	23.11
			1	99	23.50	22.78	22.96	22.89
			50	0	22.00	21.62	21.80	21.83

			50	24	22.00	21.77	21.88	21.98
			50	49	22.00	21.68	21.85	21.95
			100	0	22.00	21.67	21.79	21.88

7.4. WLAN & Bluetooth Output Power

7.4.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	15.50	15.18
	6	2437	15.50	15.15
	11	2462	15.50	15.10
802.11g	1	2412	14.00	13.51
	6	2437	14.00	13.62
	11	2462	14.00	13.77
802.11n HT20	1	2412	13.00	12.41
	6	2437	13.00	12.61
	11	2462	13.00	12.71
802.11n HT40	3	2422	13.00	12.83
	6	2437	13.00	12.84
	9	2452	13.00	12.65
ax20	1	2412	13.50	12.55
	6	2437	15.00	12.80
	11	2462	15.00	13.03
ax40	3	2422	15.00	14.70
	6	2437	15.00	14.58
	9	2452	15.00	14.74

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	11.00	10.67
	40	5200	11.00	10.72
	48	5240	11.00	10.60
802.11n HT20	36	5180	10.00	9.53
	40	5200	10.00	9.41
	48	5240	10.00	9.55
802.11n HT40	38	5190	9.50	9.45
	46	5230	9.50	9.43

802.11ac VHT20	36	5180	10.00	9.60
	40	5200	10.00	9.59
	48	5240	10.00	9.57
802.11ac VHT40	38	5190	9.50	9.42
	46	5230	9.50	9.23
802.11ac VHT80	42	5210	9.50	9.40
ax20	36	5180	9.50	9.17
	40	5200	9.50	9.25
	48	5240	9.50	9.00
ax40	38	5190	9.50	9.17
	46	5230	9.50	9.07
ax80	42	5210	9.00	8.92

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	11.50	11.17
	157	5785	11.50	11.39
	165	5825	11.50	11.34
802.11n HT20	149	5745	10.50	10.16
	157	5785	10.50	10.42
	165	5825	10.50	10.16
802.11n HT40	151	5755	10.50	10.05
	159	5795	10.50	10.20
802.11ac VHT20	149	5745	10.50	9.97
	157	5785	10.50	10.29
	165	5825	10.50	10.16
802.11ac VHT40	151	5755	10.00	9.82
	159	5795	10.00	10.00
802.11ac VHT80	155	5775	10.00	10.00
ax20	149	5745	10.00	9.55
	157	5785	10.00	9.62
	165	5825	10.00	9.46
ax40	151	5755	10.00	9.49
	159	5795	10.00	9.62
ax80	155	5775	10.00	9.50

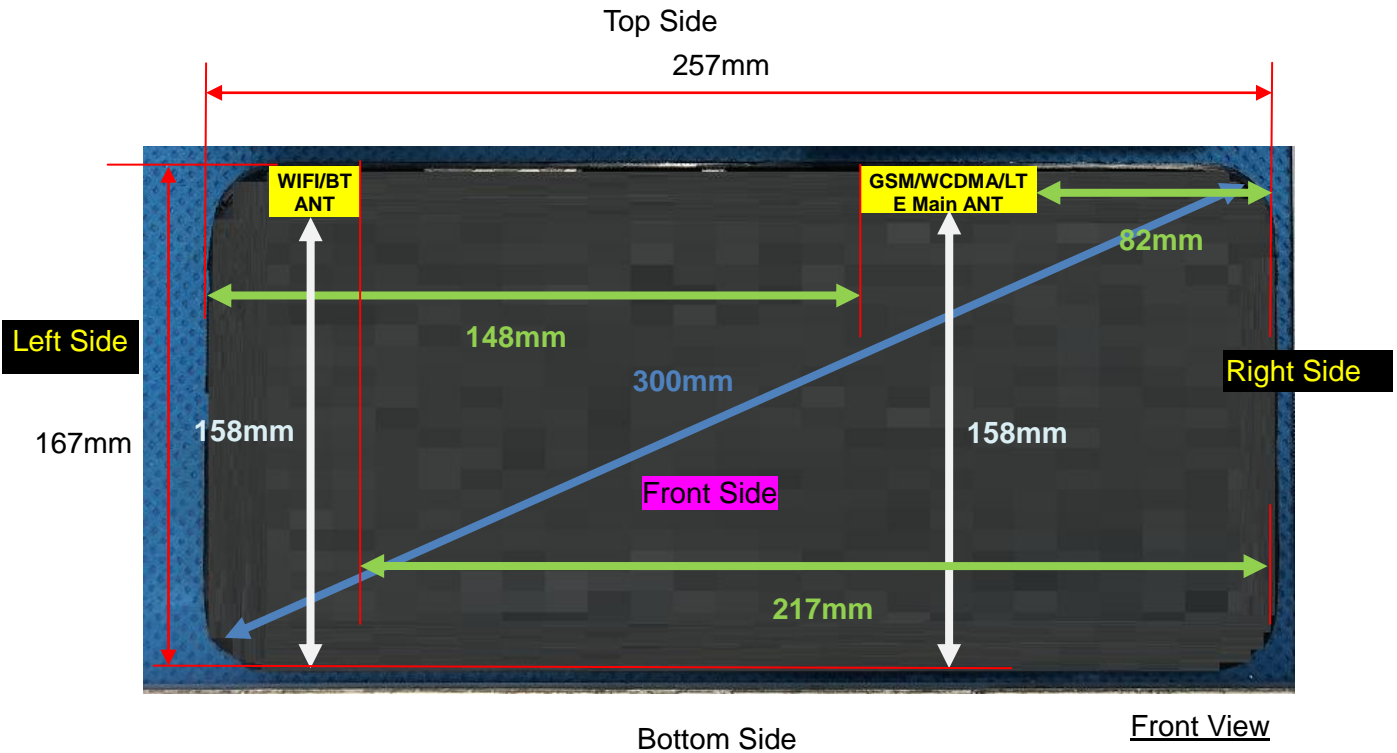
NOTE: Power measurement results of WLAN 5.8G.

7.4.2. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	8.00	7.79	7.70	7.82
	39CH	8.00	7.86	7.78	7.89
	78CH	8.00	7.92	7.82	7.87

BLE	Channel	Tune-up (dBm)	Output Power (dBm)	
			1M	2M
	0CH	5.00	4.47	4.54
	19CH	5.00	4.58	4.56
	39CH	5.00	4.48	4.69

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/Bluetooth	5	5	5	217	5	158
WWAN	5	5	148	82	5	158

Note: When the minimum separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Positions for SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	15.50 dBm	35.48 mW
Right Side	Antenna to user(mm)	217
	SAR exclusion threshold(mW)	1766
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1176
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	11.00 dBm	12.59 mW
Right Side	Antenna to user(mm)	217
	SAR exclusion threshold(mW)	1736

	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1146
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	11.50 dBm	14.13 mW
Right Side	Antenna to user(mm)	217
	SAR exclusion threshold(mW)	1732
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1142
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM 850	
	30.50 dBm	1122.02 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	YES
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM 1900	
	30.00 dBm	1000.00 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1089
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	429
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1189
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	24.00 dBm	251.19 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1089
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	429

	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1189
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	23.50 dBm	223.87 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1089
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	429
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1189
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	24.00 dBm	251.19 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	19.00 dBm	79.43 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1089
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	429
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1189
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	19.50 dBm	89.13 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1089

	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	429
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1189
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	24.00 dBm	251.19 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 7	
	24.00 dBm	251.19 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1076
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	416
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	1176
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	23.00 dBm	199.53 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 17	

	22.00 dBm	158.49 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 26A	
	23.00 dBm	199.53 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 26B	
	23.00 dBm	199.53 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	710
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	342
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158
	SAR exclusion threshold(mW)	765
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	24.00 dBm	251.19 mW
Left Side	Antenna to user(mm)	148
	SAR exclusion threshold(mW)	1076
	SAR testing required?	NO
Right Side	Antenna to user(mm)	82
	SAR exclusion threshold(mW)	416
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	158

	SAR exclusion threshold(mW)	1176
	SAR testing required?	NO

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

9. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	8.00	6.31	5	2.480	2	3	YES

NOTE: Standalone SAR test exclusion for Bluetooth.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}/x}]$ W/kg for test separation distances ≤ 50 mm, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Body	8.00	6.31	5	2.48	7.5	0.264
Bluetooth	Hotspot	8.00	6.31	5	2.48	7.5	0.264

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement results

10.1.1. SAR measurement Result of GSM850

Test Position of	Test channel	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR	Date	Plot
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Body-Worn with 0mm	/Freq.		1g	10g	(±5%)	(dBm)	(dBm)	1g (W/Kg)		
Front Side	189/836.4	GPRS(GMSK 3TS)	0.066	0.032	-0.55	29.79	30.50	0.078	2024/5/30	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.089	0.044	-0.61	29.79	30.50	0.105	2024/5/30	1#

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.066	0.032	-0.55	29.79	30.50	0.078	2024/5/30	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.089	0.044	-0.61	29.79	30.50	0.105	2024/5/30	1#
Leftt Side	189/836.4	GPRS(GMSK 3TS)	0.033	0.015	-1.49	29.79	30.50	0.039	2024/5/30	
Right Side	189/836.4	GPRS(GMSK 3TS)	0.047	0.025	-1.49	29.79	30.50	0.055	2024/5/30	
Top Side	189/836.4	GPRS(GMSK 3TS)	0.050	0.028	1.12	29.79	30.50	0.059	2024/5/30	
Bottom Side	189/836.4	GPRS(GMSK 3TS)	0.028	0.012	-1.43	29.79	30.50	0.033	2024/5/30	

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	661/1880	GPRS(GMSK 2TS)	0.498	0.201	-1.31	29.77	30.00	0.525	2024/6/03	
Back Side	661/1880	GPRS(GMSK 2TS)	0.806	0.332	3.97	29.77	30.00	0.850	2024/6/03	
Back Side	512/1850.2	GPRS(GMSK 2TS)	0.648	0.262	0.51	29.37	30.00	0.749	2024/6/03	
Back Side	810/1909.8	GPRS(GMSK 2TS)	0.831	0.335	-4.21	29.58	30.00	0.915	2024/6/03	2#

		2TS)								
BackSide Repeated	810/1909.8	GPRS(GMSK 2TS)	0.829	0.331	1.02	29.58	30.00	0.913	2024/6/03	

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 2TS)	0.498	0.201	-1.31	29.77	30.00	0.525	2024/6/03	
Back Side	661/1880	GPRS(GMSK 2TS)	0.806	0.332	3.97	29.77	30.00	0.850	2024/6/03	
Right Side	661/1880	GPRS(GMSK 2TS)	0.243	0.098	-2.72	29.77	30.00	0.256	2024/6/03	
Top Side	661/1880	GPRS(GMSK 2TS)	0.252	0.103	2.28	29.77	30.00	0.266	2024/6/03	
Back Side	512/1850.2	GPRS(GMSK 2TS)	0.648	0.262	0.51	29.37	30.00	0.749	2024/6/03	
Back Side	810/1909.8	GPRS(GMSK 2TS)	0.831	0.335	-4.21	29.58	30.00	0.915	2024/6/03	2#
BackSide Repeated	810/1909.8	GPRS(GMSK 2TS)	0.829	0.331	1.02	29.58	30.00	0.913	2024/6/03	

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.294	0.116	-2.38	23.37	24.00	0.340	2024/6/03	
Back Side	9400/1880	RMC12.2K	0.470	0.186	1.09	23.37	24.00	0.543	2024/6/03	3#

NOTE: Body-Worn SAR test results of WCDMA Band 2

Test Position of Hotspot with	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

Omm										
Front Side	9400/1880	RMC12.2K	0.294	0.116	-2.38	23.37	24.00	0.340	2024/6/03	
Back Side	9400/1880	RMC12.2K	0.470	0.186	1.09	23.37	24.00	0.543	2024/6/03	3#
Top Side	9400/1880	RMC12.2K	0.144	0.057	-3.14	23.37	24.00	0.166	2024/6/03	

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.366	0.148	2.29	22.93	23.50	0.417	2024/5/28	
Back Side	1413/1732.6	RMC12.2K	0.588	0.245	-0.50	22.93	23.50	0.670	2024/5/28	4#

NOTE: Body-Worn SAR test results of WCDMA Band 4

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.366	0.148	2.29	22.93	23.50	0.417	2024/5/28	
Back Side	1413/1732.6	RMC12.2K	0.588	0.245	-0.50	22.93	23.50	0.670	2024/5/28	4#
Top Side	1413/1732.6	RMC12.2K	0.180	0.073	3.04	22.93	23.50	0.205	2024/5/28	

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.156	0.073	3.46	23.51	24.00	0.175	2024/5/30	
Back Side	4182/836.4	RMC12.2K	0.242	0.114	-0.30	23.51	24.00	0.271	2024/5/30	5#

NOTE: Body-Worn SAR test results of WCDMA Band 5

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.156	0.073	3.46	23.51	24.00	0.175	2024/5/30	
Back Side	4182/836.4	RMC12.2K	0.242	0.114	-0.30	23.51	24.00	0.271	2024/5/30	5#
Top Side	4182/836.4	RMC12.2K	0.081	0.038	2.64	23.51	24.00	0.091	2024/5/30	

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of LTE Band 2

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	18900/1880	20M QPSK(1,0)	0.504	0.200	-0.24	18.64	19.00	0.548	2024/6/03	
Back Side	18900/1880	20M QPSK(1,0)	0.821	0.325	0.62	18.64	19.00	0.892	2024/6/03	9#
Back Side	18700/1860	20M QPSK(1,49)	0.730	0.277	-1.19	18.50	19.00	0.819	2024/6/03	
Back Side	19100/1900	20M QPSK(1,49)	0.747	0.293	-1.30	18.46	19.00	0.846	2024/6/03	
BackSide Repeated	18900/1880	20M QPSK(1,0)	0.817	0.320	2.01	18.64	19.00	0.888	2024/6/03	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.283	0.103	3.09	16.60	17.50	0.348	2024/6/03	
Back Side	18900/1880	20M QPSK(50,0)	0.452	0.171	-4.58	16.60	17.50	0.556	2024/6/03	

NOTE: Body-Worn SAR test results of LTE Band 2

Test Position of	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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Hotspot with 0mm			1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
1RB										
Front Side	18900/1880	20M QPSK(1,0)	0.504	0.200	-0.24	18.64	19.00	0.548	2024/6/03	
Back Side	18900/1880	20M QPSK(1,0)	0.821	0.325	0.62	18.64	19.00	0.892	2024/6/03	9#
Top Side	18900/1880	20M QPSK(1,0)	0.258	0.099	-1.92	18.64	19.00	0.280	2024/6/03	
Back Side	18700/1860	20M QPSK(1,49)	0.730	0.277	-1.19	18.50	19.00	0.819	2024/6/03	
Back Side	19100/1900	20M QPSK(1,49)	0.747	0.293	-1.30	18.46	19.00	0.846	2024/6/03	
BackSide Repeated	18900/1880	20M QPSK(1,0)	0.817	0.320	2.01	18.64	19.00	0.888	2024/6/03	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.283	0.103	3.09	16.60	17.50	0.348	2024/6/03	
Back Side	18900/1880	20M QPSK(50,0)	0.452	0.171	-4.58	16.60	17.50	0.556	2024/6/03	
Top Side	18900/1880	20M QPSK(50,0)	0.139	0.052	1.56	16.60	17.50	0.171	2024/6/03	
100%RB										
Back Side	18900/1880	20M QPSK(100,0)	0.294	0.112	3.05	16.53	17.50	0.368	2024/6/03	

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. SAR measurement Result of LTE Band 4

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.444	0.181	0.58	19.13	19.50	0.483	2024/5/28	
Back Side	20175/1732.5	20M QPSK(1,49)	0.700	0.289	-1.12	19.13	19.50	0.762	2024/5/28	10#
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.255	0.103	4.03	18.04	18.50	0.283	2024/5/28	
Back Side	20175/1732.5	20M	0.418	0.173	1.54	18.04	18.50	0.465	2024/5/28	

		QPSK(50,0)								
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NOTE: Body-Worn SAR test results of LTE Band 4

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.444	0.181	0.58	19.13	19.50	0.483	2024/5/28	
Back Side	20175/1732.5	20M QPSK(1,49)	0.700	0.289	-1.12	19.13	19.50	0.762	2024/5/28	10#
Top Side	20175/1732.5	20M QPSK(1,49)	0.216	0.085	0.69	19.13	19.50	0.235	2024/5/28	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.255	0.103	4.03	18.04	18.50	0.283	2024/5/28	
Back Side	20175/1732.5	20M QPSK(50,0)	0.418	0.173	1.54	18.04	18.50	0.465	2024/5/28	
Top Side	20175/1732.5	20M QPSK(50,0)	0.128	0.049	1.29	18.04	18.50	0.142	2024/5/28	

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. SAR measurement Result of LTE Band 5

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,0)	0.156	0.069	-1.49	23.59	24.00	0.171	2024/5/30	
Back Side	20525/836.5	10M QPSK(1,0)	0.220	0.099	-2.24	23.59	24.00	0.242	2024/5/30	11#
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.089	0.039	1.51	22.55	23.00	0.099	2024/5/30	
Back Side	20525/836.5	10M QPSK(25,12)	0.114	0.055	3.18	22.55	23.00	0.126	2024/5/30	

NOTE: Body-Worn SAR test results of LTE Band 5

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,0)	0.156	0.069	-1.49	23.59	24.00	0.171	2024/5/30	
Back Side	20525/836.5	10M QPSK(1,0)	0.220	0.099	-2.24	23.59	24.00	0.242	2024/5/30	11#
Top Side	20525/836.5	10M QPSK(1,0)	0.078	0.034	-3.94	23.59	24.00	0.086	2024/5/30	
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.089	0.039	1.51	22.55	23.00	0.099	2024/5/30	
Back Side	20525/836.5	10M QPSK(25,12)	0.114	0.055	3.18	22.55	23.00	0.126	2024/5/30	
Top Side	20525/836.5	10M QPSK(25,12)	0.046	0.017	0.24	22.55	23.00	0.051	2024/5/30	

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. SAR measurement Result of LTE Band 7

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.282	0.109	-3.89	23.25	24.00	0.335	2024/5/29	
Back Side	21100/2535	20M QPSK(1,49)	0.430	0.168	-2.22	23.25	24.00	0.511	2024/5/29	12#
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.165	0.064	-0.83	22.36	23.00	0.191	2024/5/29	
Back Side	21100/2535	20M QPSK(50,24)	0.227	0.092	2.36	22.36	23.00	0.263	2024/5/29	

NOTE: Body-Worn SAR test results of LTE Band 7

Test	Test channel	Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date	Plot
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Position of Hotspot with 0mm	/Freq.		(W/kg)		Drift(%)	Power (dBm)	Power (dBm)	SAR 1-g (W/Kg)		
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.282	0.109	-3.89	23.25	24.00	0.335	2024/5/29	
Back Side	21100/2535	20M QPSK(1,49)	0.430	0.168	-2.22	23.25	24.00	0.511	2024/5/29	12#
Top Side	21100/2535	20M QPSK(1,49)	0.129	0.050	3.00	23.25	24.00	0.153	2024/5/29	
50%RB										
Front Side	21100/2535	20M QPSK(50,24)	0.165	0.064	-0.83	22.36	23.00	0.191	2024/5/29	
Back Side	21100/2535	20M QPSK(50,24)	0.227	0.092	2.36	22.36	23.00	0.263	2024/5/29	
Top Side	21100/2535	20M QPSK(50,24)	0.065	0.028	2.82	22.36	23.00	0.075	2024/5/29	

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.462	0.242	2.30	22.75	23.00	0.489	2024/6/04	
Back Side	23095/707.5	10M QPSK(1,0)	0.730	0.398	-0.63	22.75	23.00	0.773	2024/6/04	13#
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.262	0.131	-3.04	21.36	22.00	0.304	2024/6/04	
Back Side	23095/707.5	10M QPSK(25,24)	0.367	0.230	-3.61	21.36	22.00	0.425	2024/6/04	

NOTE: Body-Worn SAR test results of LTE Band 12

Test Position	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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of Hotspot with 0mm			1-g	10-g		(dBm)	(dBm)	1-g (W/Kg)		
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.462	0.242	2.30	22.75	23.00	0.489	2024/6/04	
Back Side	23095/707.5	10M QPSK(1,0)	0.730	0.398	-0.63	22.75	23.00	0.773	2024/6/04	13#
Top Side	23095/707.5	10M QPSK(1,0)	0.219	0.117	-0.49	22.75	23.00	0.232	2024/6/04	
50%RB										
Front Side	23095/707.5	10M QPSK(25,24)	0.262	0.131	-3.04	21.36	22.00	0.304	2024/6/04	
Back Side	23095/707.5	10M QPSK(25,24)	0.367	0.230	-3.61	21.36	22.00	0.425	2024/6/04	
Top Side	23095/707.5	10M QPSK(25,24)	0.131	0.065	0.43	21.36	22.00	0.152	2024/6/04	

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. SAR measurement Result of LTE Band 17

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.288	0.170	-1.97	21.33	22.00	0.336	2024/6/04	
Back Side	23790/710	10M QPSK(1,24)	0.469	0.288	0.42	21.33	22.00	0.547	2024/6/04	14#
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.169	0.086	4.02	21.08	21.50	0.186	2024/6/04	
Back Side	23790/710	10M QPSK(25,12)	0.241	0.165	2.48	21.08	21.50	0.265	2024/6/04	

NOTE: Body-Worn SAR test results of LTE Band 17

Test Position of	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g	Date	Plot
			1-g	10-g						

Hotspot with 0mm								(W/Kg)		
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.288	0.170	-1.97	21.33	22.00	0.336	2024/6/04	
Back Side	23790/710	10M QPSK(1,24)	0.469	0.288	0.42	21.33	22.00	0.547	2024/6/04	14#
Top Side	23790/710	10M QPSK(1,24)	0.144	0.086	1.57	21.33	22.00	0.168	2024/6/04	
50%RB										
Front Side	23790/710	10M QPSK(25,12)	0.169	0.086	4.02	21.08	21.50	0.186	2024/6/04	
Back Side	23790/710	10M QPSK(25,12)	0.241	0.165	2.48	21.08	21.50	0.265	2024/6/04	
Top Side	23790/710	10M QPSK(25,12)	0.076	0.044	-1.30	21.08	21.50	0.084	2024/6/04	

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. SAR measurement Result of LTE Band 26A

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26740/819	10M QPSK(1,0)	0.234	0.106	-3.41	22.81	23.00	0.244	2024/5/30	
Back Side	26740/819	10M QPSK(1,0)	0.347	0.159	-2.27	22.81	23.00	0.363	2024/5/30	16#
50%RB										
Front Side	26740/819	10M QPSK(25,12)	0.126	0.054	-1.81	21.82	22.00	0.131	2024/5/30	
Back Side	26740/819	10M QPSK(25,12)	0.174	0.088	-3.98	21.82	22.00	0.181	2024/5/30	

NOTE: Body-Worn SAR test results of LTE Band 26A

Test Position of Hotspot	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

with 0mm										
1RB										
Front Side	26740/819	10M QPSK(1,0)	0.234	0.106	-3.41	22.81	23.00	0.244	2024/5/30	
Back Side	26740/819	10M QPSK(1,0)	0.347	0.159	-2.27	22.81	23.00	0.363	2024/5/30	16#
Top Side	26740/819	10M QPSK(1,0)	0.111	0.048	1.56	22.81	23.00	0.116	2024/5/30	
50%RB										
Front Side	26740/819	10M QPSK(25,12)	0.126	0.054	-1.81	21.82	22.00	0.131	2024/5/30	
Back Side	26740/819	10M QPSK(25,12)	0.174	0.088	-3.98	21.82	22.00	0.181	2024/5/30	
Top Side	26740/819	10M QPSK(25,12)	0.060	0.026	2.58	21.82	22.00	0.063	2024/5/30	

NOTE: Hotspot SAR test results of LTE Band 26A

10.1.13. SAR measurement Result of LTE Band 26B

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	26865/831.5	15M QPSK(1,37)	0.438	0.269	1.39	22.56	23.00	0.485	2024/5/30	
Back Side	26865/831.5	15M QPSK(1,37)	0.680	0.417	2.01	22.56	23.00	0.753	2024/5/30	17#
50%RB										
Front Side	26865/831.5	15M QPSK(36,18)	0.238	0.142	3.32	21.51	22.00	0.266	2024/5/30	
Back Side	26865/831.5	15M QPSK(36,18)	0.347	0.209	-1.48	21.51	22.00	0.388	2024/5/30	

NOTE: Body-Worn SAR test results of LTE Band 26B

Test Position of Hotspot with	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

Omm										
1RB										
Front Side	26865/831.5	15M QPSK(1,37)	0.438	0.269	1.39	22.56	23.00	0.485	2024/5/30	
Back Side	26865/831.5	15M QPSK(1,37)	0.680	0.417	2.01	22.56	23.00	0.753	2024/5/30	17#
Top Side	26865/831.5	15M QPSK(1,37)	0.207	0.123	-0.23	22.56	23.00	0.229	2024/5/30	
50%RB										
Front Side	26865/831.5	15M QPSK(36,18)	0.238	0.142	3.32	21.51	22.00	0.266	2024/5/30	
Back Side	26865/831.5	15M QPSK(36,18)	0.347	0.209	-1.48	21.51	22.00	0.388	2024/5/30	
Top Side	26865/831.5	15M QPSK(36,18)	0.116	0.072	1.01	21.51	22.00	0.130	2024/5/30	

NOTE: Hotspot SAR test results of LTE Band 26B

10.1.14. SAR measurement Result of LTE Band 41

Test Position of Body-Worn with Omm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40740/2605	20M QPSK(1,49)	0.330	0.116	0.08	23.85	24.00	0.342	2024/5/29	
Back Side	40740/2605	20M QPSK(1,49)	0.537	0.190	-2.32	23.85	24.00	0.556	2024/5/29	15#
50%RB										
Front Side	40740/2605	20M QPSK(50,24)	0.185	0.062	0.84	22.88	23.00	0.190	2024/5/29	
Back Side	40740/2605	20M QPSK(50,24)	0.319	0.101	-0.55	22.88	23.00	0.328	2024/5/29	

NOTE: Body-Worn SAR test results of LTE Band 41

Test Position of Hotspot with Omm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducte d Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										

Front Side	40740/2605	20M QPSK(1,49)	0.330	0.116	0.08	23.85	24.00	0.342	2024/5/29	
Back Side	40740/2605	20M QPSK(1,49)	0.537	0.190	-2.32	23.85	24.00	0.556	2024/5/29	15#
Top Side	40740/2605	20M QPSK(1,49)	0.168	0.058	3.93	23.85	24.00	0.174	2024/5/29	
50%RB										
Front Side	40740/2605	20M QPSK(50,2 4)	0.185	0.062	0.84	22.88	23.00	0.190	2024/5/29	
Back Side	40740/2605	20M QPSK(50,2 4)	0.319	0.101	-0.55	22.88	23.00	0.328	2024/5/29	
Top Side	40740/2605	20M QPSK(50,2 4)	0.092	0.029	3.47	22.88	23.00	0.095	2024/5/29	

NOTE: Hotspot SAR test results of LTE Band 41

10.1.15. SAR measurement Result of WLAN 2.4G

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1/2412	802.11b	0.264	0.111	-2.64	15.18	15.50	0.284	2024/6/05	
Back Side	1/2412	802.11b	0.409	0.174	-0.75	15.18	15.50	0.440	2024/6/05	8#

NOTE: Body-Worn SAR test results of WLAN 2.4G

Test Position of Hotspot with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1/2412	802.11b	0.264	0.111	-2.64	15.18	15.50	0.284	2024/6/05	
Back Side	1/2412	802.11b	0.409	0.174	-0.75	15.18	15.50	0.440	2024/6/05	8#
Left Side	1/2412	802.11b	0.123	0.052	2.81	15.18	15.50	0.132	2024/6/05	
Top Side	1/2412	802.11b	0.132	0.054	-1.99	15.18	15.50	0.142	2024/6/05	

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.16. SAR measurement Result of WLAN 5.2G

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11a	0.366	0.115	-3.30	10.72	11.00	0.390	2024/6/07	
Back Side	40/5200	802.11a	0.579	0.189	-4.84	10.72	11.00	0.618	2024/6/07	6#

NOTE: Body-Worn SAR test results of WLAN 5.2G

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	40/5200	802.11a	0.366	0.115	-3.30	10.72	11.00	0.390	2024/6/07	
Back Side	40/5200	802.11a	0.579	0.189	-4.84	10.72	11.00	0.618	2024/6/07	6#
Left Side	40/5200	802.11a	0.177	0.058	-0.35	10.72	11.00	0.189	2024/6/07	
Top Side	40/5200	802.11a	0.174	0.056	-1.27	10.72	11.00	0.186	2024/6/07	

NOTE: Hotspot SAR test results of WLAN 5.2G

10.1.17. SAR measurement Result of WLAN 5.8G

Test Position of Body-Worn with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	157/5785	802.11a	0.258	0.077	-2.51	11.39	11.50	0.265	2024/6/06	
Back Side	157/5785	802.11a	0.409	0.122	-1.59	11.39	11.50	0.419	2024/6/06	7#

NOTE: Body-Worn SAR test results of WLAN 5.8G

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						

Front Side	157/5785	802.11a	0.258	0.077	-2.51	11.39	11.50	0.265	2024/6/06	
Back Side	157/5785	802.11a	0.409	0.122	-1.59	11.39	11.50	0.419	2024/6/06	7#
Left Side	157/5785	802.11a	0.129	0.037	-0.99	11.39	11.50	0.132	2024/6/06	
Top Side	157/5785	802.11a	0.126	0.036	2.79	11.39	11.50	0.129	2024/6/06	

NOTE: Hotspot SAR test results of WLAN 5.8G

10.2. SAR Summation Scenario

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

- 1) Scalar SAR summation < 1.6W/kg.
- 2) $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SARMAX		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Body-Worn	Front Side	0.548	0.284	0.832	N/A	N/A
	Back Side	0.892	0.440	1.332	N/A	N/A
Hotspot	Front Side	0.548	0.284	0.832	N/A	N/A
	Back Side	0.892	0.440	1.332	N/A	N/A
	Left Side	0.039	0.132	0.171	N/A	N/A
	Right Side	0.256	N/A	0.256	N/A	N/A
	Top Side	0.280	0.142	0.422	N/A	N/A
	Bottom Side	0.033	N/A	0.033	N/A	N/A

Test Position		Scaled SARMAX		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Body-Worn	Front Side	0.548	0.390	0.938	N/A	N/A
	Back Side	0.892	0.618	1.510	N/A	N/A
Hotspot	Front Side	0.548	0.390	0.938	N/A	N/A
	Back Side	0.892	0.618	1.510	N/A	N/A
	Left Side	0.039	0.189	0.228	N/A	N/A
	Right Side	0.256	N/A	0.256	N/A	N/A

	Top Side	0.280	0.186	0.466	N/A	N/A
	Bottom Side	0.033	N/A	0.033	N/A	N/A

Test Position		Scaled SARMAX		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Body-Worn	Front Side	0.548	0.264	0.812	N/A	N/A
	Back Side	0.892	0.264	1.156	N/A	N/A
Hotspot	Front Side	0.548	0.264	0.812	N/A	N/A
	Back Side	0.892	0.264	1.156	N/A	N/A
	Left Side	0.039	0.264	0.303	N/A	N/A
	Right Side	0.256	N/A	0.256	N/A	N/A
	Top Side	0.280	0.264	0.544	N/A	N/A
	Bottom Side	0.033	N/A	0.033	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
MEASUREMENT 3 System Performance Check - 1800MHz
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MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

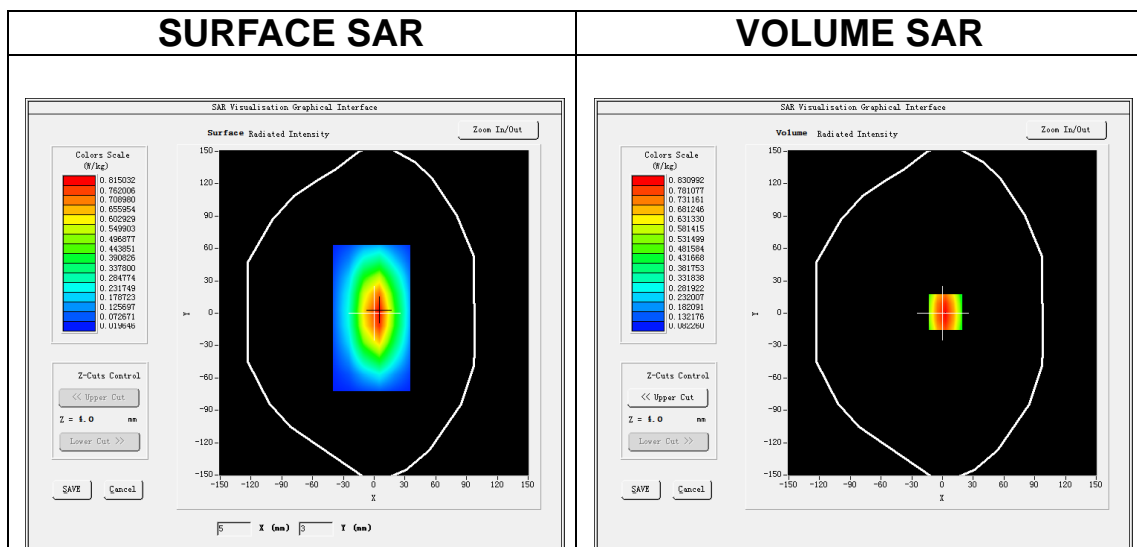
Date of measurement: 4/6/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW750</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.37</u>

B. SAR Measurement Results

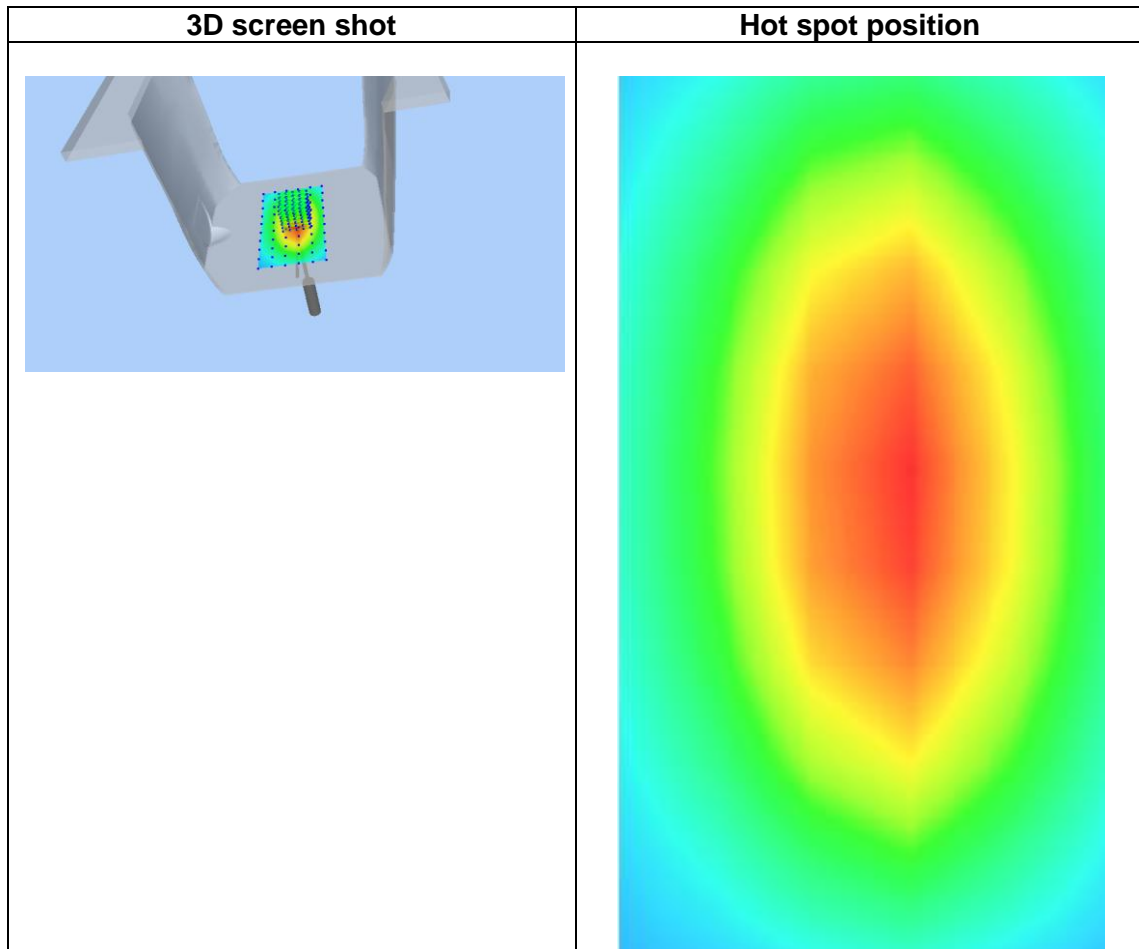
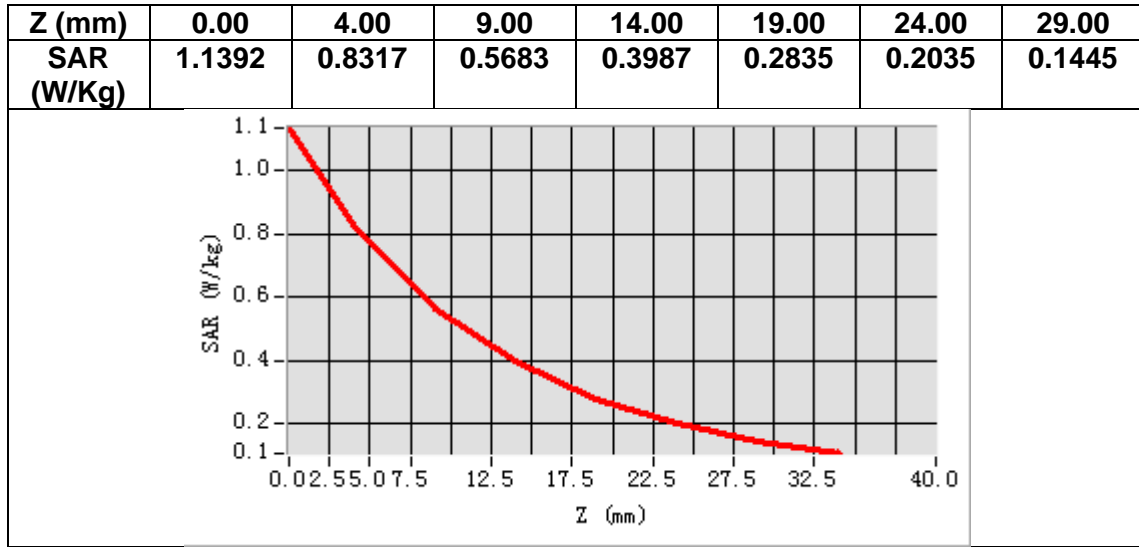
Frequency (MHz)	750.000000
Relative permittivity (real part)	40.884891
Relative permittivity (imaginary part)	21.490463
Conductivity (S/m)	0.895436
Variation (%)	2.730000



Maximum location: X=3.00, Y=1.00

SAR Peak: 1.13 W/kg

SAR 10g (W/Kg)	0.560332
SAR 1g (W/Kg)	0.881321



MEASUREMENT 2

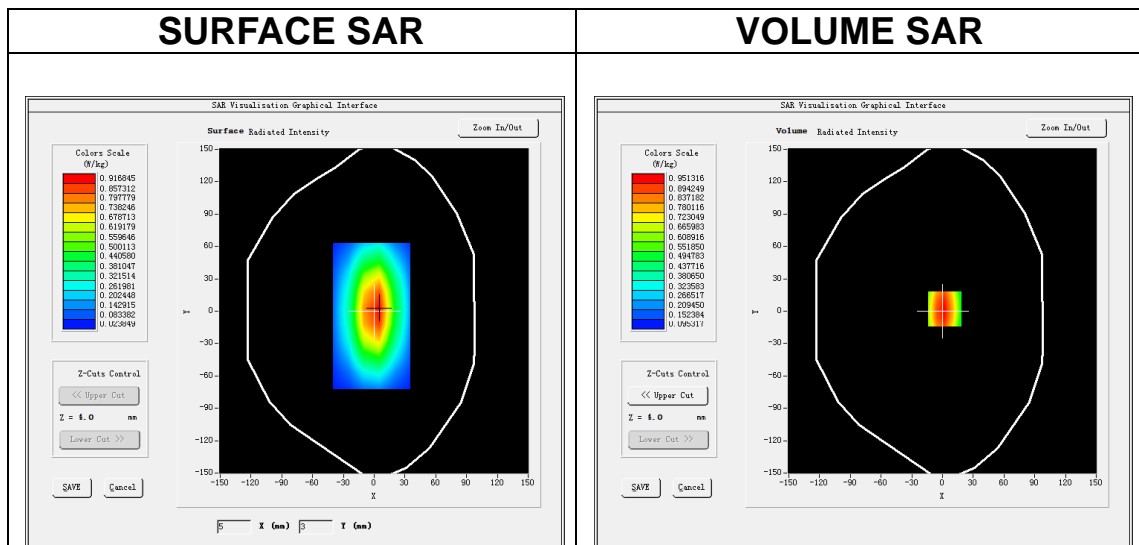
Date of measurement: 30/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW835</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.32</u>

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.528502
Relative permittivity (imaginary part)	19.541862
Conductivity (S/m)	0.906525
Variation (%)	-2.720000

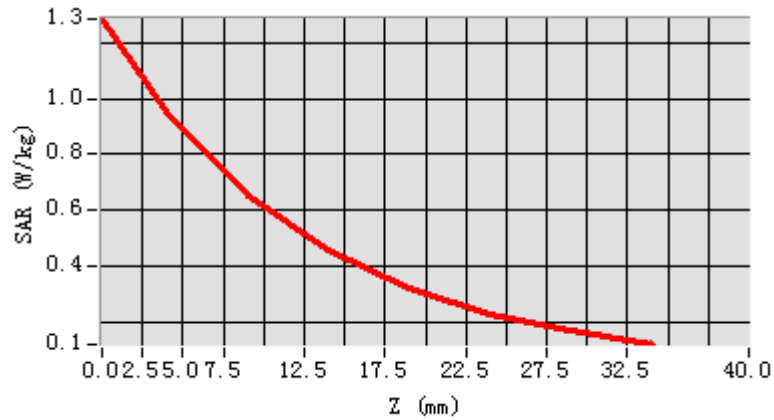


Maximum location: X=2.00, Y=2.00

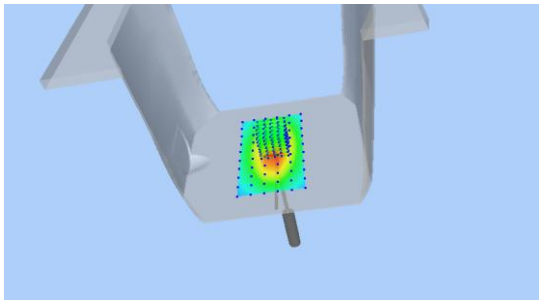
SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.613333
SAR 1g (W/Kg)	0.880172

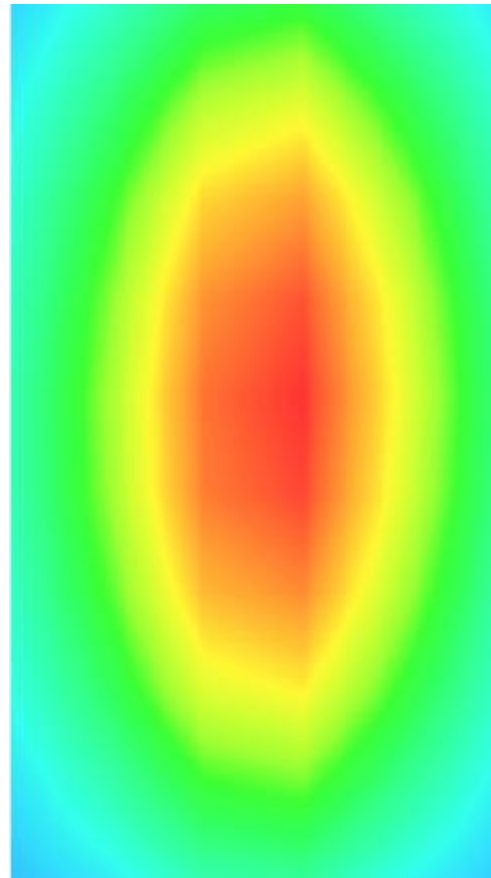
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2821	0.9559	0.6532	0.4562	0.3263	0.2309	0.1726



3D screen shot



Hot spot position



MEASUREMENT 3

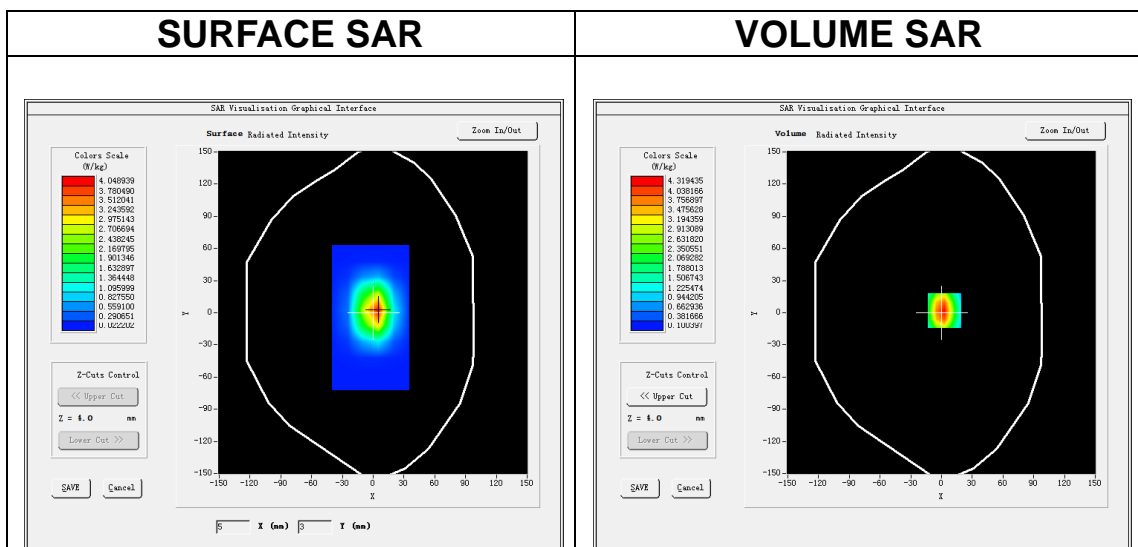
Date of measurement: 28/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW1800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.45</u>

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.335125
Relative permittivity (imaginary part)	13.968965
Conductivity (S/m)	1.396897
Variation (%)	2.980000

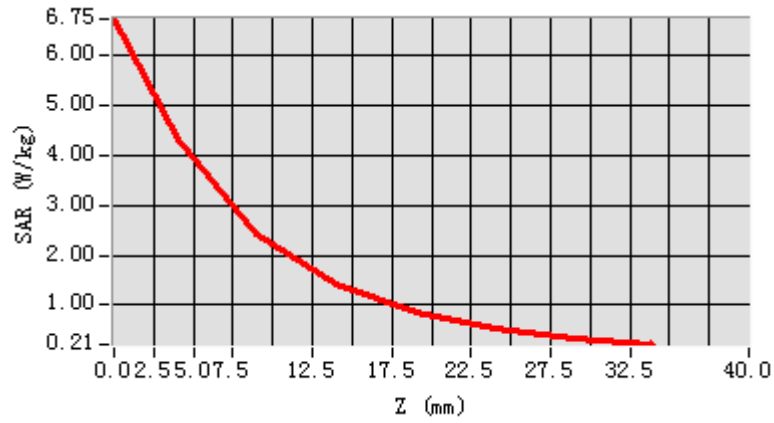


Maximum location: X=3.00, Y=2.00

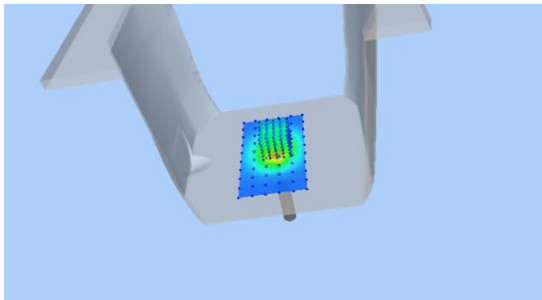
SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	1.995307
SAR 1g (W/Kg)	3.952066

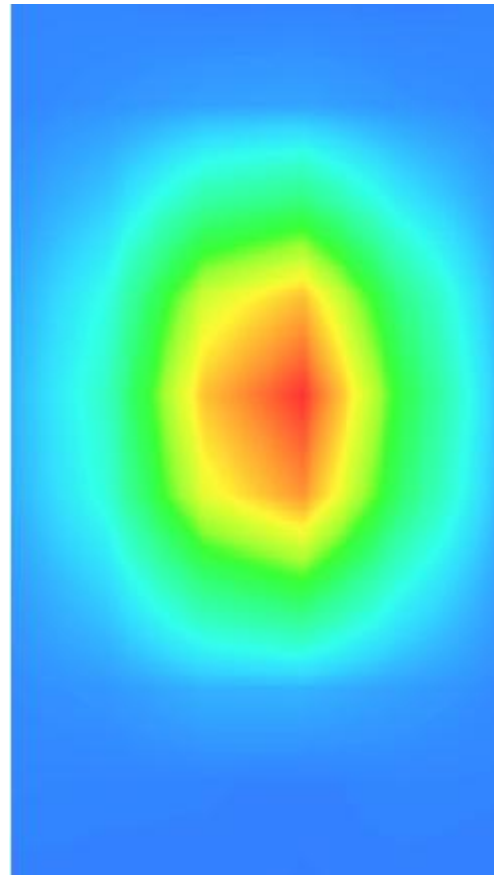
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7474	4.3111	2.4329	1.4203	0.8572	0.5231	0.3234



3D screen shot



Hot spot position



MEASUREMENT 4

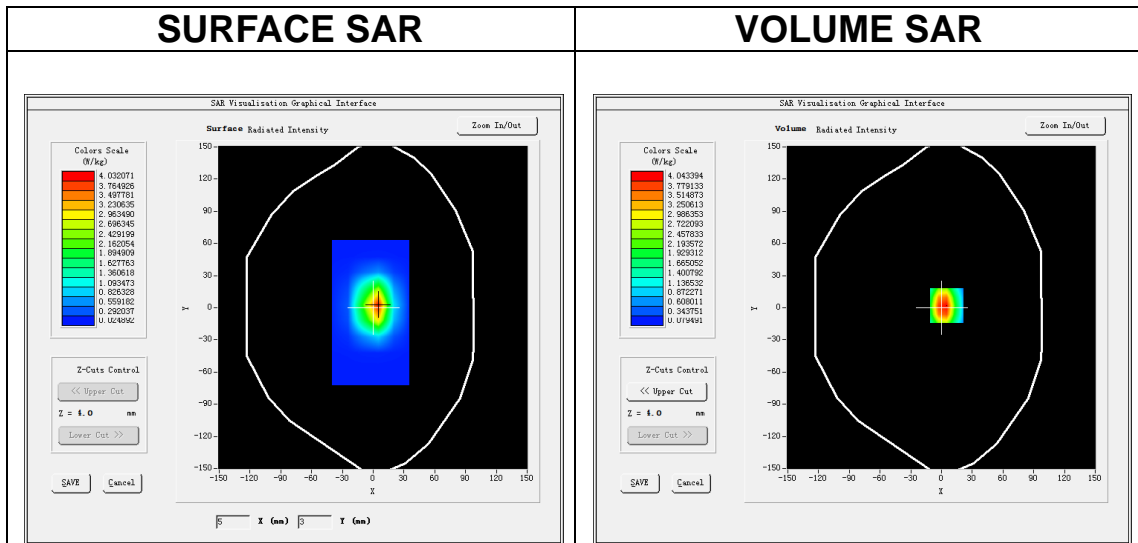
Date of measurement: 3/6/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW1900</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.63</u>

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.782481
Relative permittivity (imaginary part)	13.626018
Conductivity (S/m)	1.438302
Variation (%)	2.220000

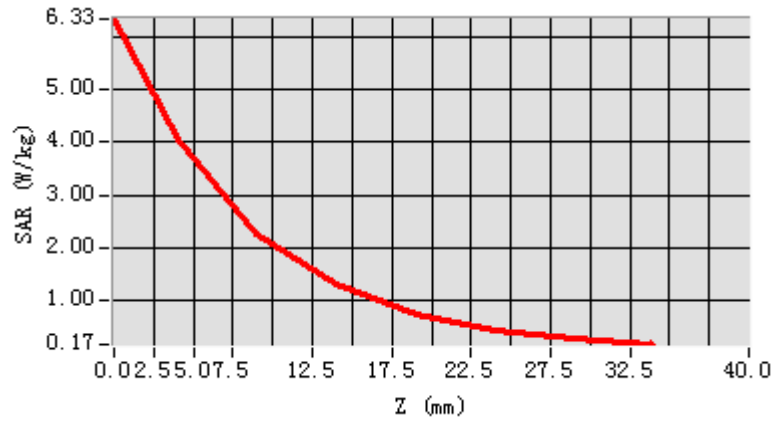


Maximum location: X=5.00, Y=2.00

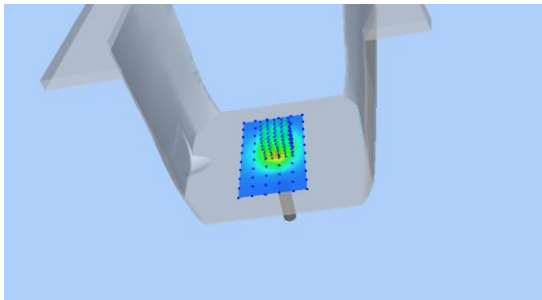
SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	1.948347
SAR 1g (W/Kg)	3.663221

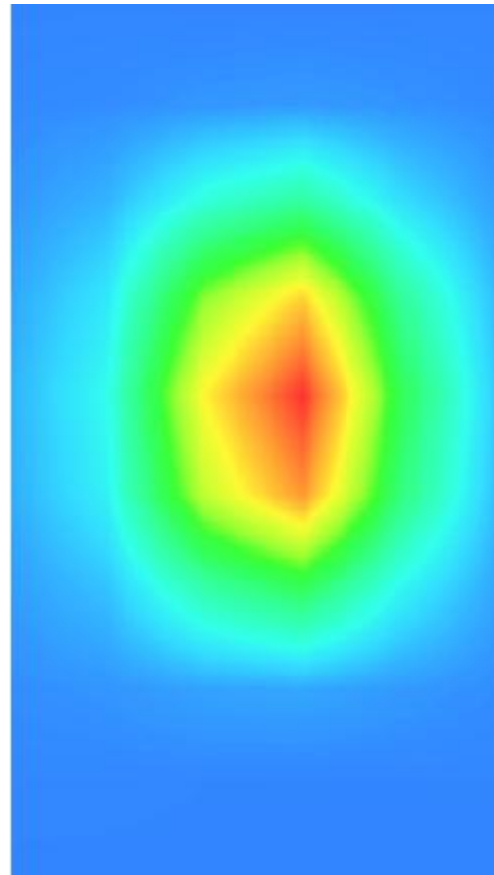
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.3247	4.0419	2.2630	1.3026	0.7618	0.4514	0.2794



3D screen shot



Hot spot position



MEASUREMENT 5

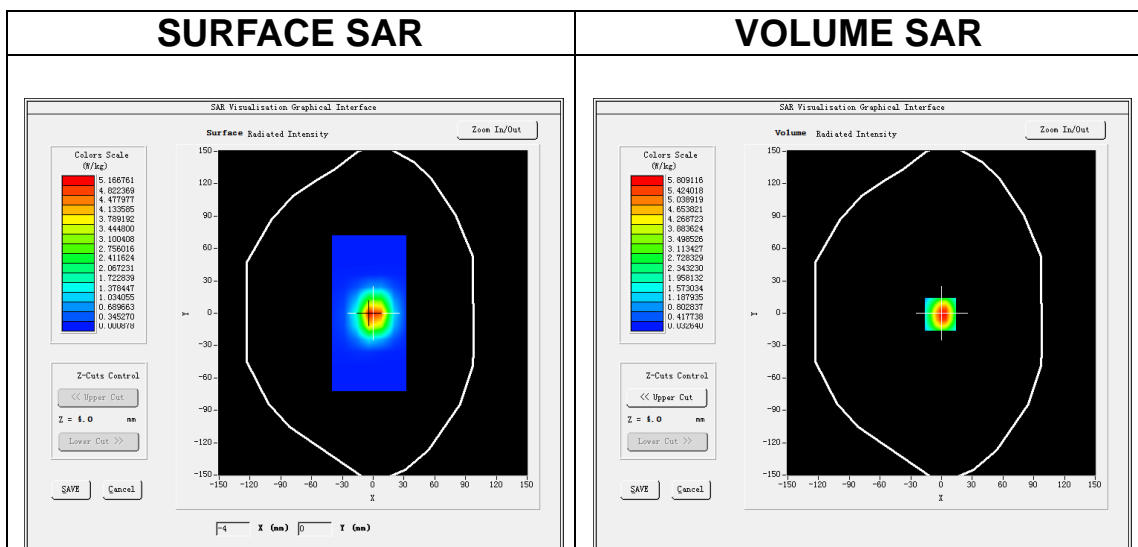
Date of measurement: 5/6/2024

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2450</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.85</u>

B. SAR Measurement Results

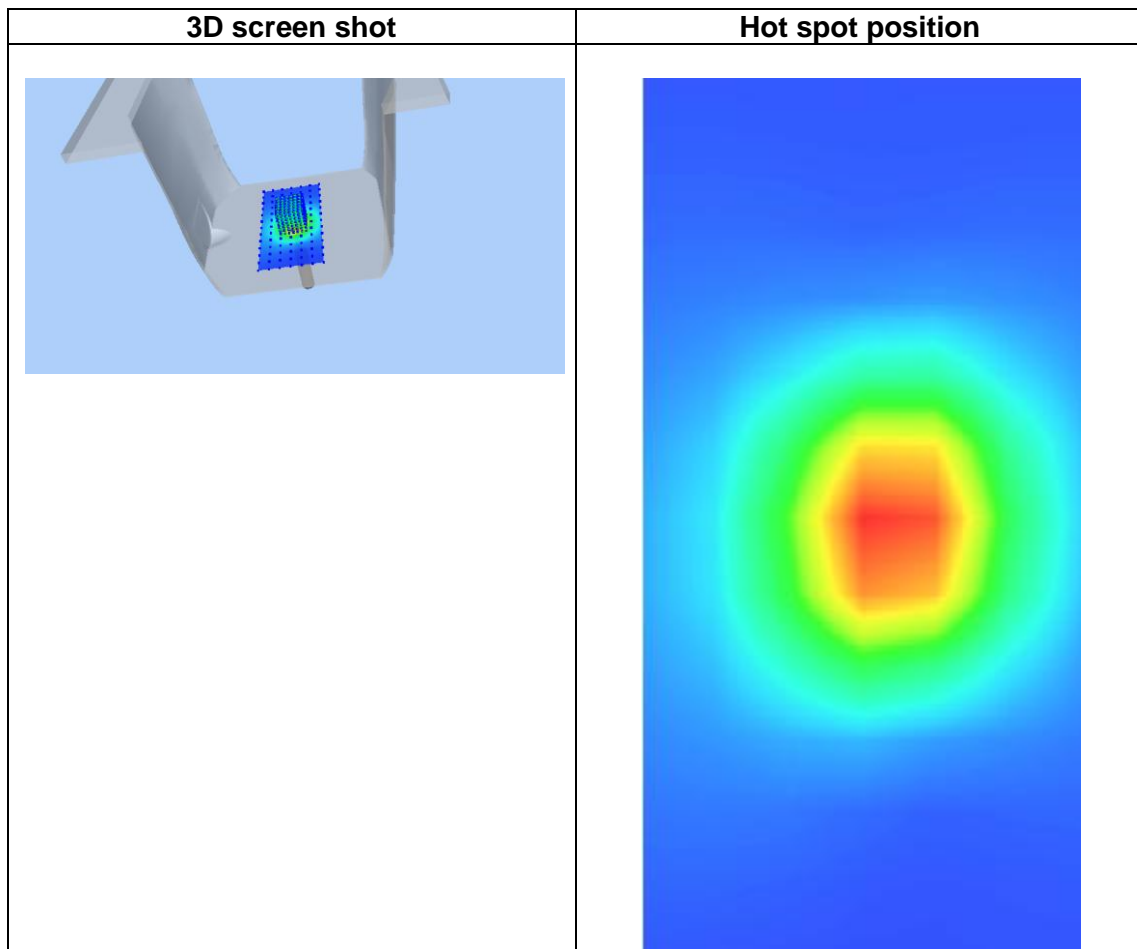
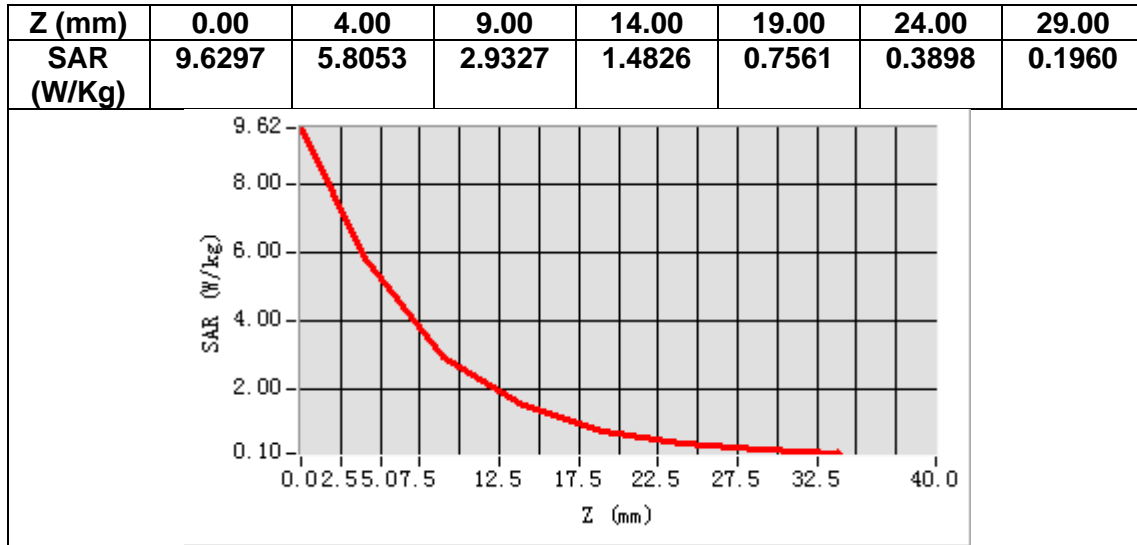
Frequency (MHz)	2450.000000
Relative permittivity (real part)	37.717635
Relative permittivity (imaginary part)	12.931778
Conductivity (S/m)	1.760159
Variation (%)	1.290000



Maximum location: X=-1.00, Y=-1.00

SAR Peak: 9.73 W/kg

SAR 10g (W/Kg)	2.443106
SAR 1g (W/Kg)	5.139340



MEASUREMENT 6

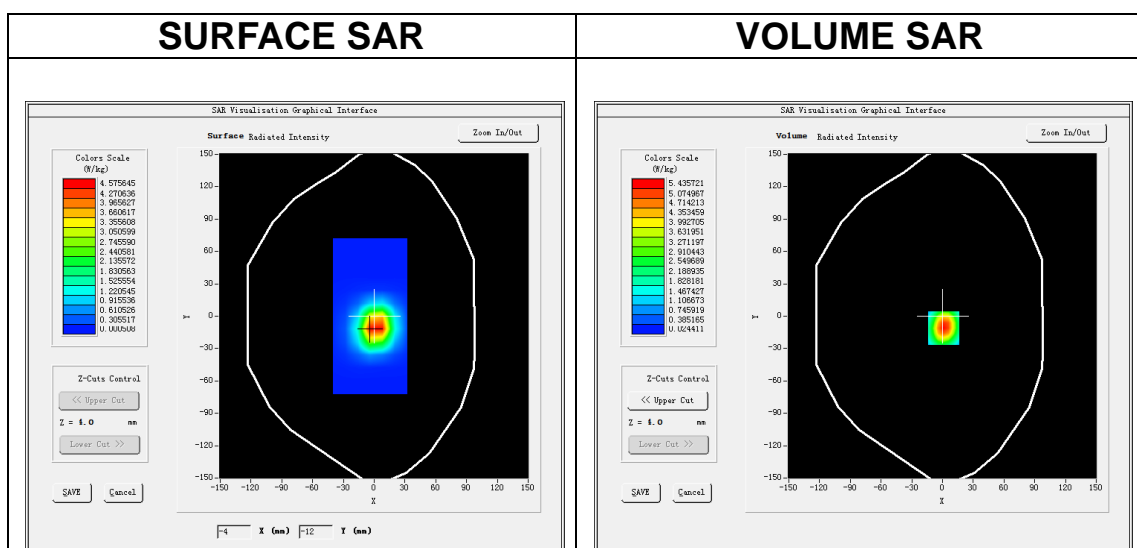
Date of measurement: 29/5/2024

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW2600</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.65</u>

B. SAR Measurement Results

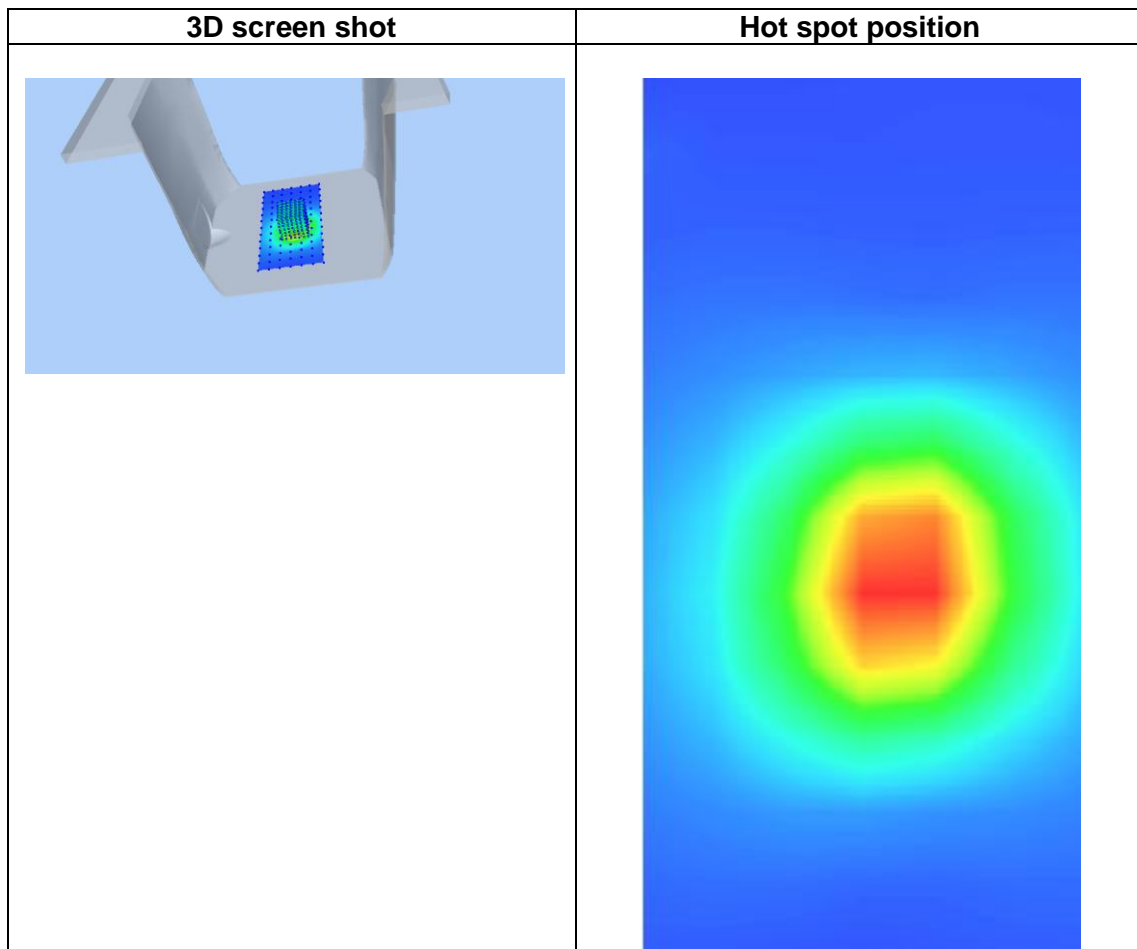
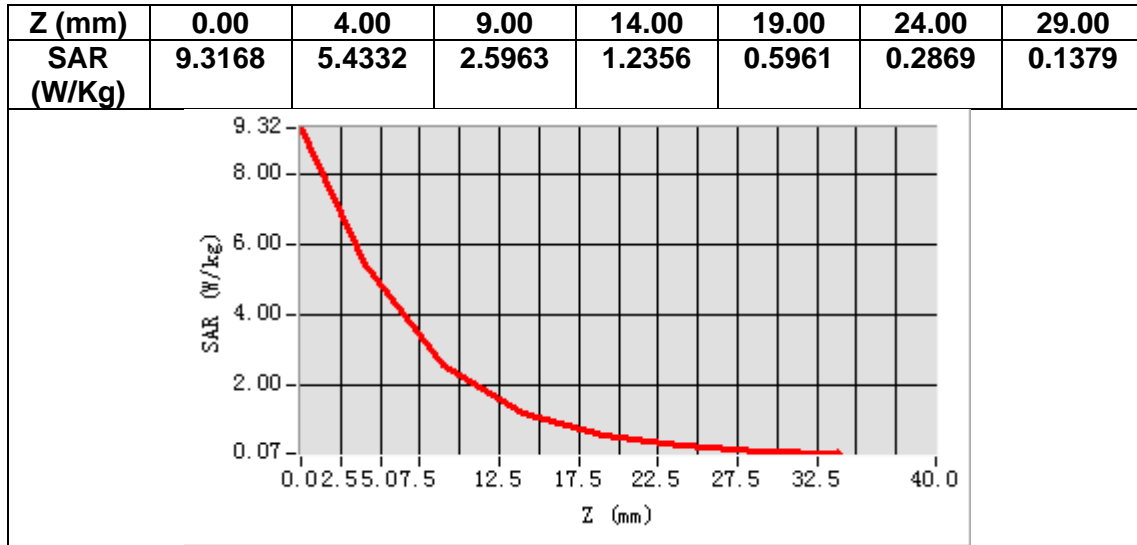
Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.173484
Relative permittivity (imaginary part)	13.966388
Conductivity (S/m)	2.017367
Variation (%)	0.250000



Maximum location: X=1.00, Y=-11.00

SAR Peak: 9.29 W/kg

SAR 10g (W/Kg)	2.505037
SAR 1g (W/Kg)	5.005199



MEASUREMENT 7

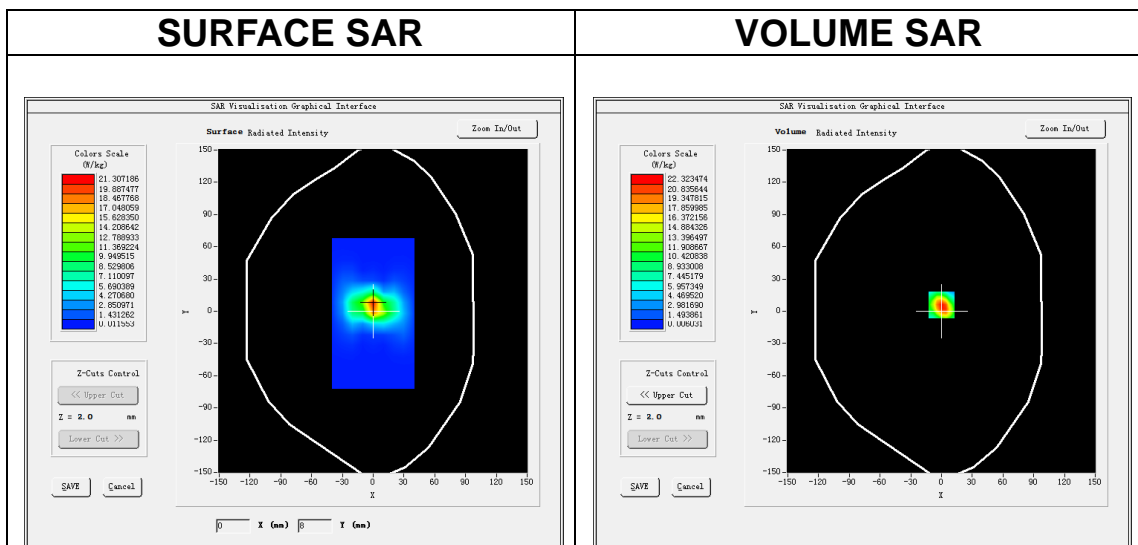
Date of measurement: 7/6/2024

A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW5200</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.07</u>

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.873427
Relative permittivity (imaginary part)	15.913428
Conductivity (S/m)	4.597213
Variation (%)	2.800000

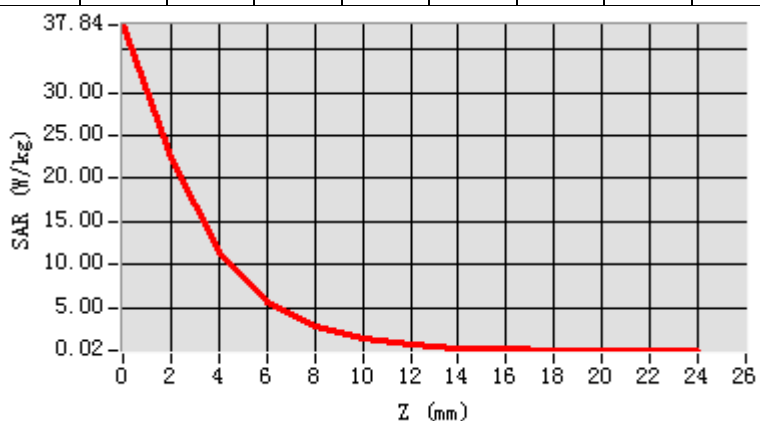


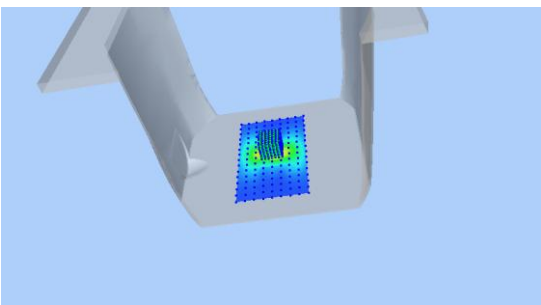
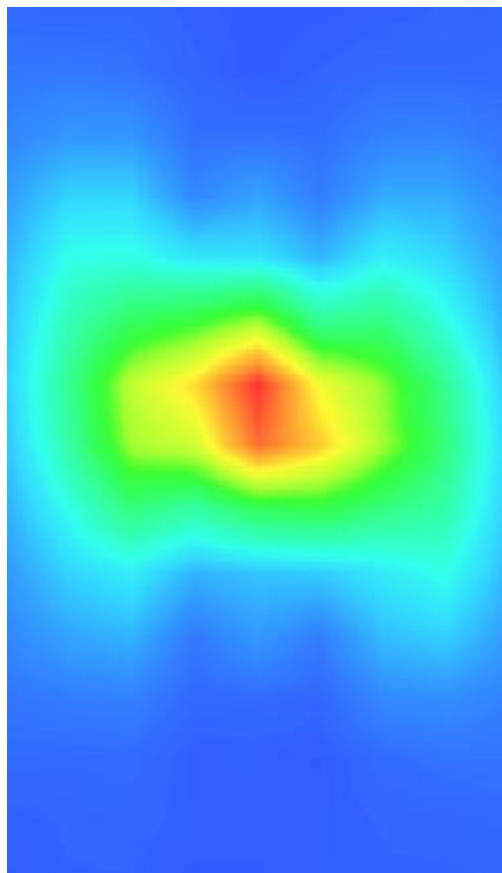
Maximum location: X=0.00, Y=6.00

SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.526162
SAR 1g (W/Kg)	15.594032

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	37.891	22.391	11.377	5.6694	2.8291	1.4043	0.7150	0.3637	0.1802	0.1008	0.0527	0.0397



3D screen shot	Hot spot position
	

MEASUREMENT 8

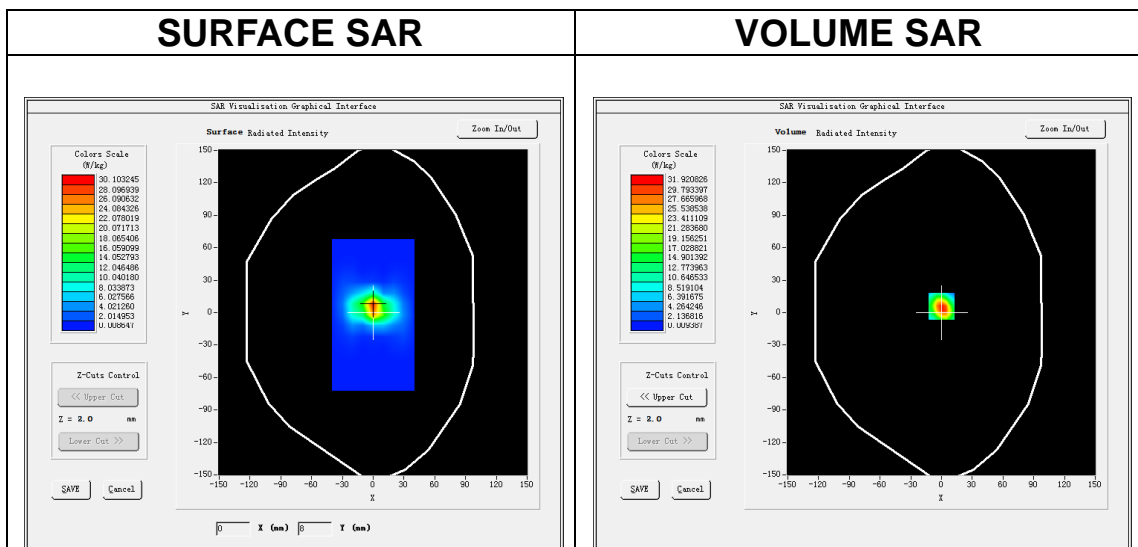
Date of measurement: 6/6/2024

A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Dipole</u>
Band	<u>CW5800</u>
Channels	<u>Middle</u>
Signal	<u>CW (Crest factor: 1.0)</u>
ConvF	<u>2.04</u>

B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.304577
Relative permittivity (imaginary part)	16.300199
Conductivity (S/m)	5.252286
Variation (%)	-0.500000

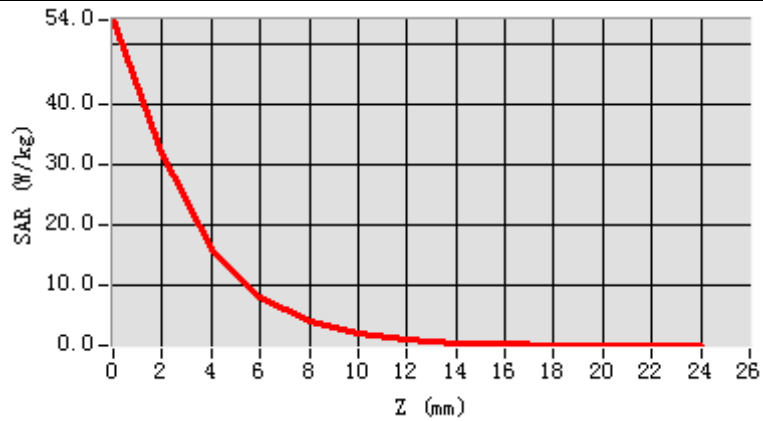


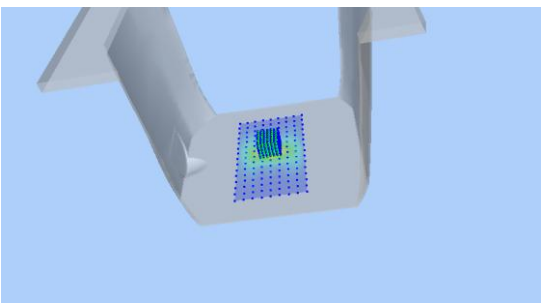
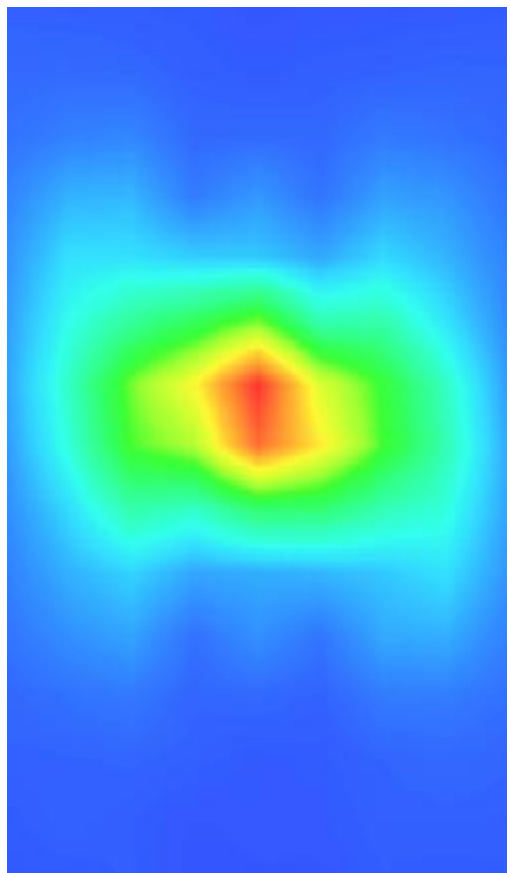
Maximum location: X=0.00, Y=6.00

SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	6.160228
SAR 1g (W/Kg)	17.778190

Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	54.036	31.948	16.144	8.1766	4.0890	2.0550	1.0361	0.5144	0.2795	0.1572	0.0788	0.0438



3D screen shot	Hot spot position
	

13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

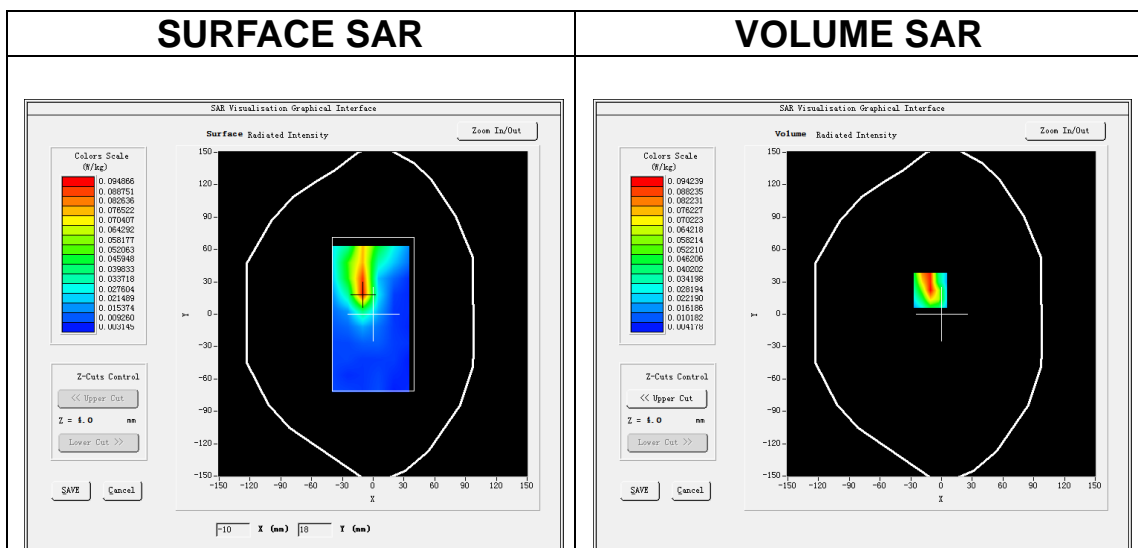
Date of measurement: 30/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>TDMA (Crest factor: 2.7)</u>
ConvF	<u>2.32</u>

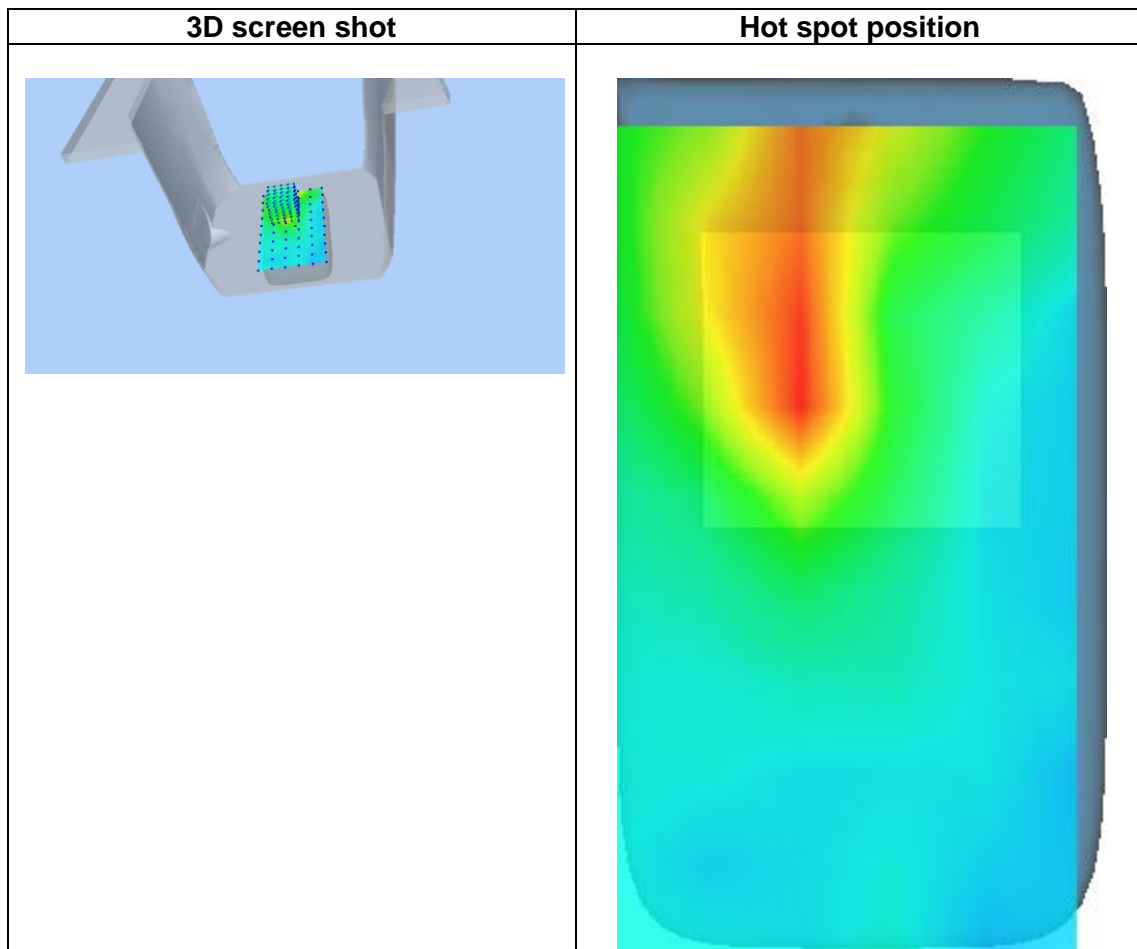
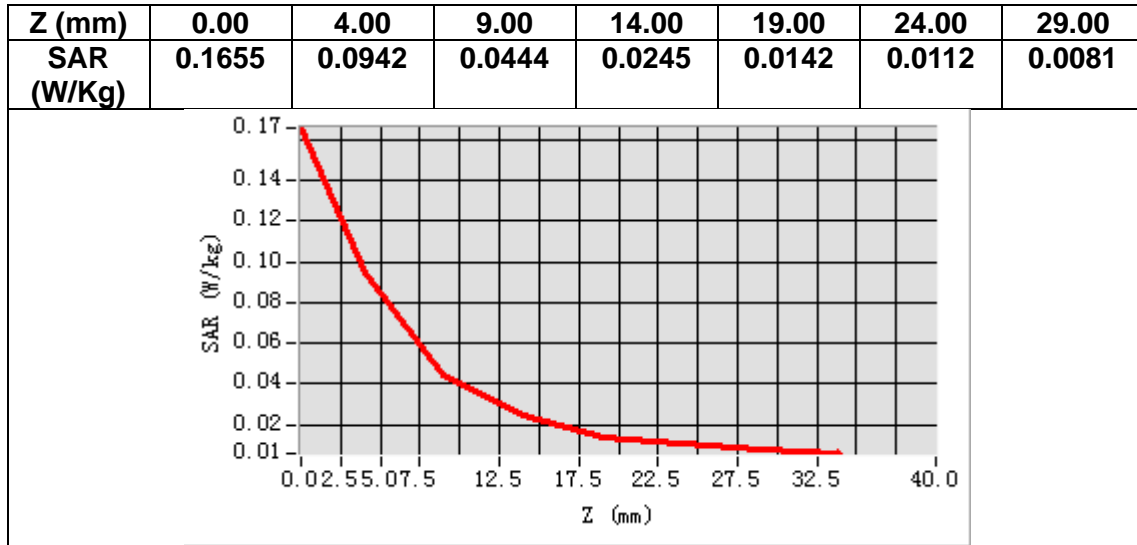
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.537582
Relative permittivity (imaginary part)	19.549063
Conductivity (S/m)	0.908380
Variation (%)	-0.610000



Maximum location: X=-11.00, Y=22.00
SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.044489
SAR 1g (W/Kg)	0.089192



MEASUREMENT 2

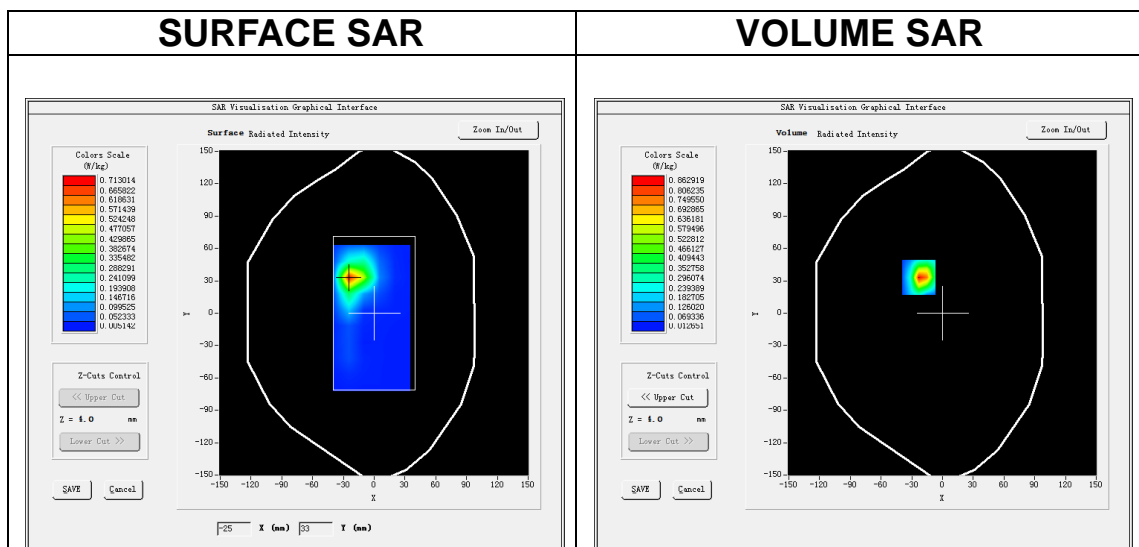
Date of measurement: 3/6/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>GSM1900</u>
Channels	<u>High</u>
Signal	<u>TDMA (Crest factor: 4.0)</u>
ConvF	<u>2.63</u>

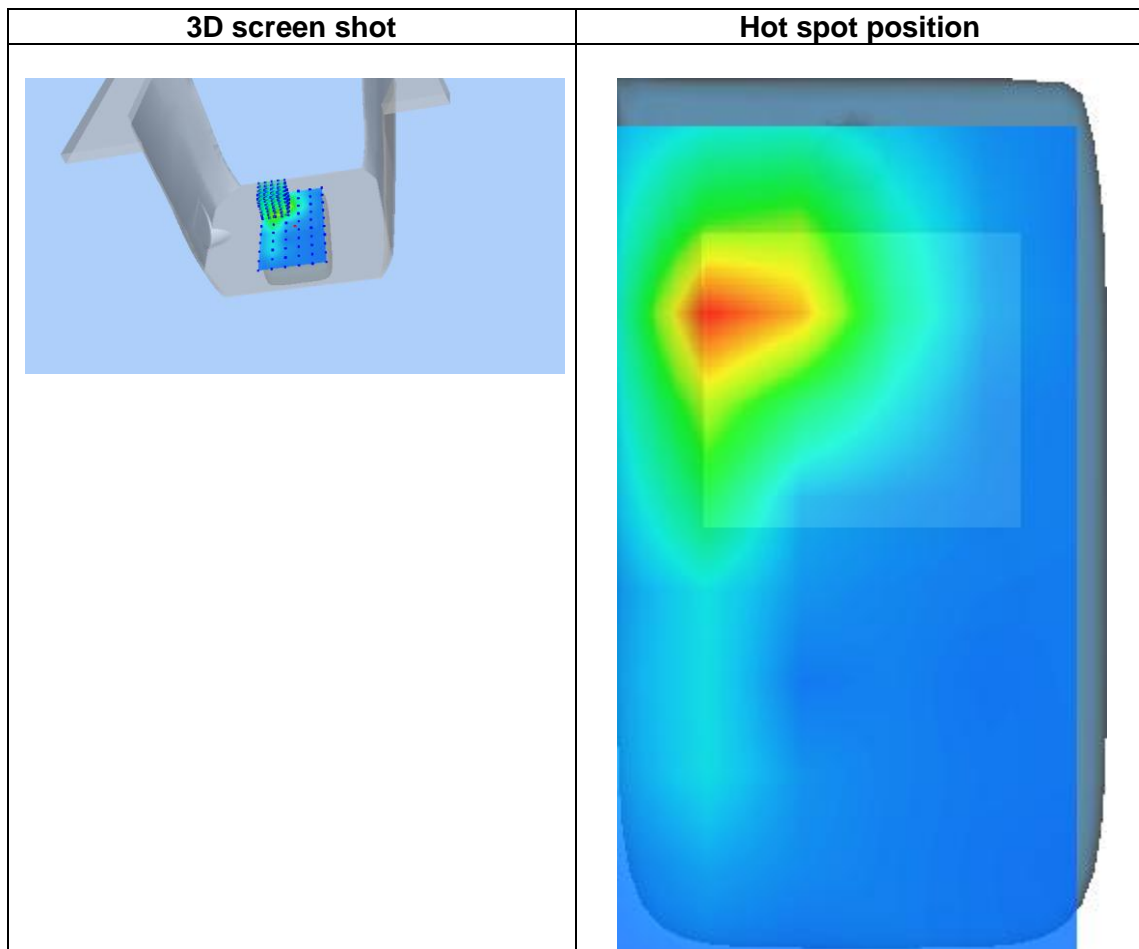
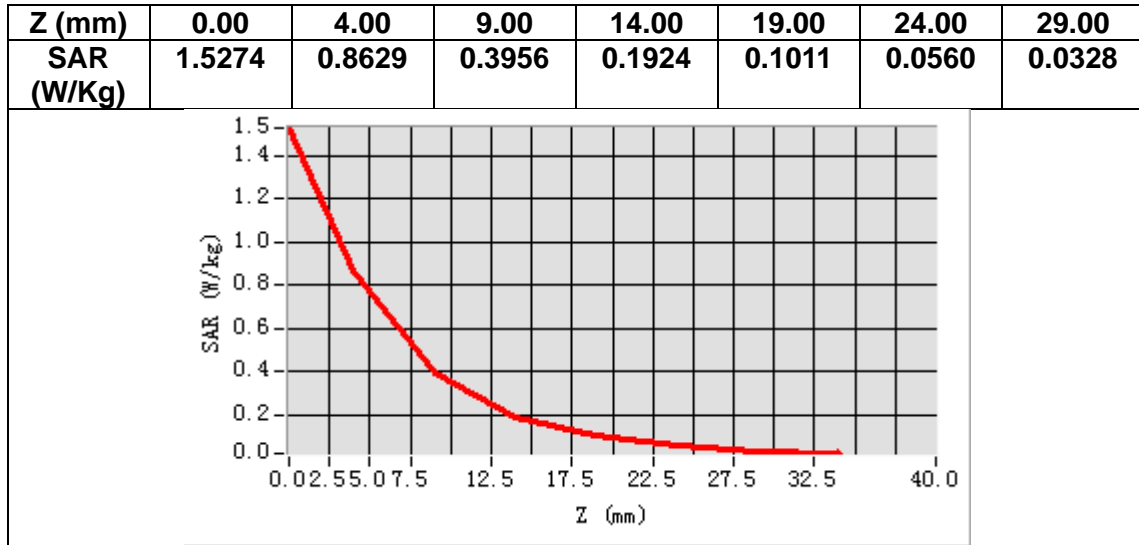
B. SAR Measurement Results

Frequency (MHz)	1909.800000
Relative permittivity (real part)	38.745823
Relative permittivity (imaginary part)	13.587138
Conductivity (S/m)	1.441595
Variation (%)	-4.210000



Maximum location: X=-23.00, Y=33.00
SAR Peak: 1.60 W/kg

SAR 10g (W/Kg)	0.335084
SAR 1g (W/Kg)	0.831418



MEASUREMENT 3

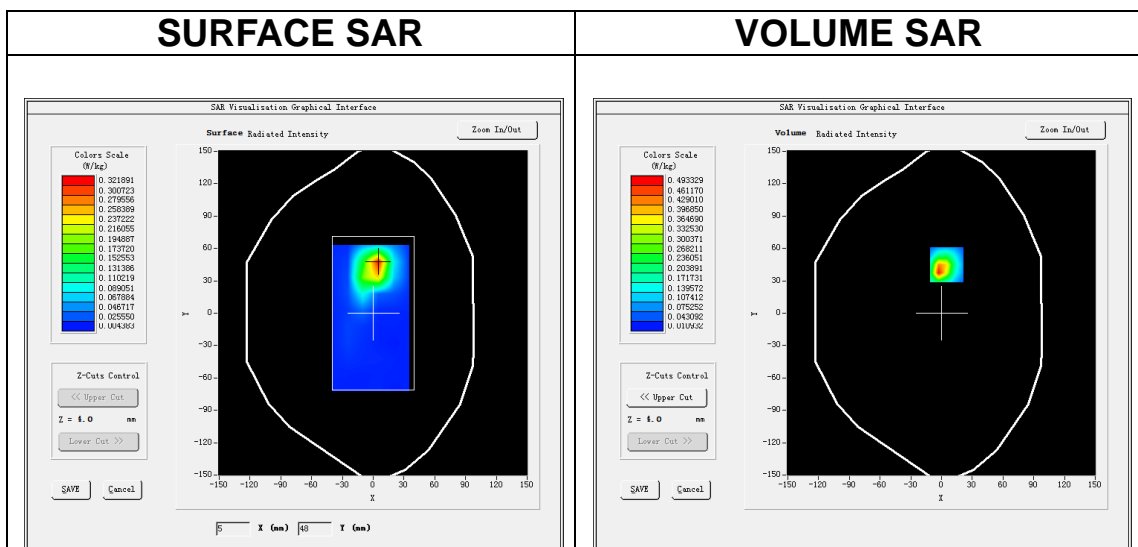
Date of measurement: 3/6/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>Band2_WCDMA1900</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>2.63</u>

B. SAR Measurement Results

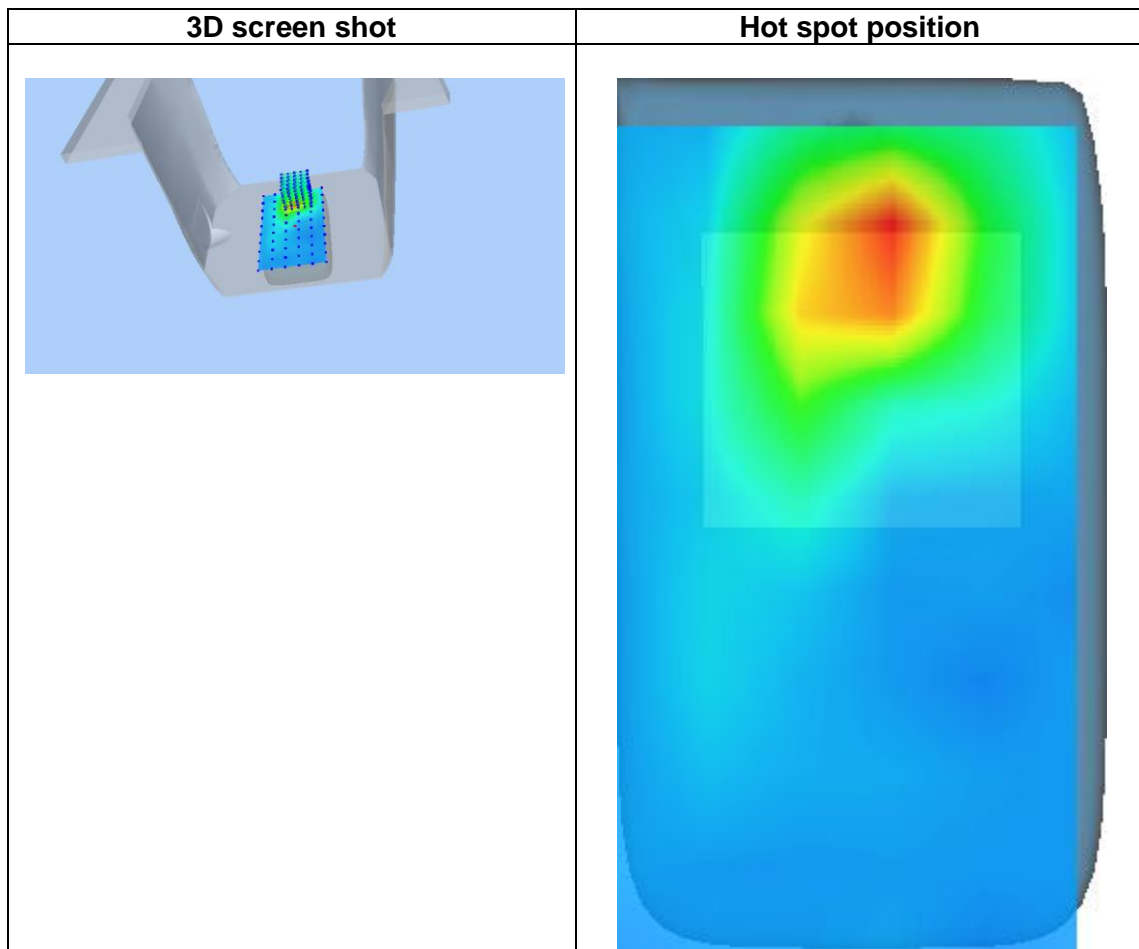
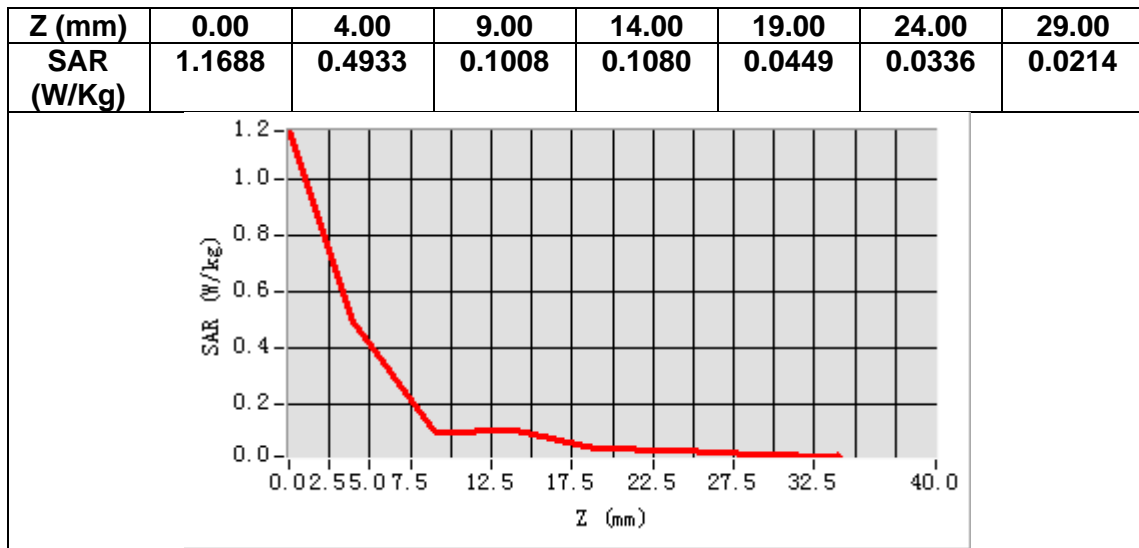
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.857780
Relative permittivity (imaginary part)	13.673918
Conductivity (S/m)	1.428165
Variation (%)	1.090000



Maximum location: X=5.00, Y=45.00

SAR Peak: 0.96 W/kg

SAR 10g (W/Kg)	0.186414
SAR 1g (W/Kg)	0.470249



MEASUREMENT 4

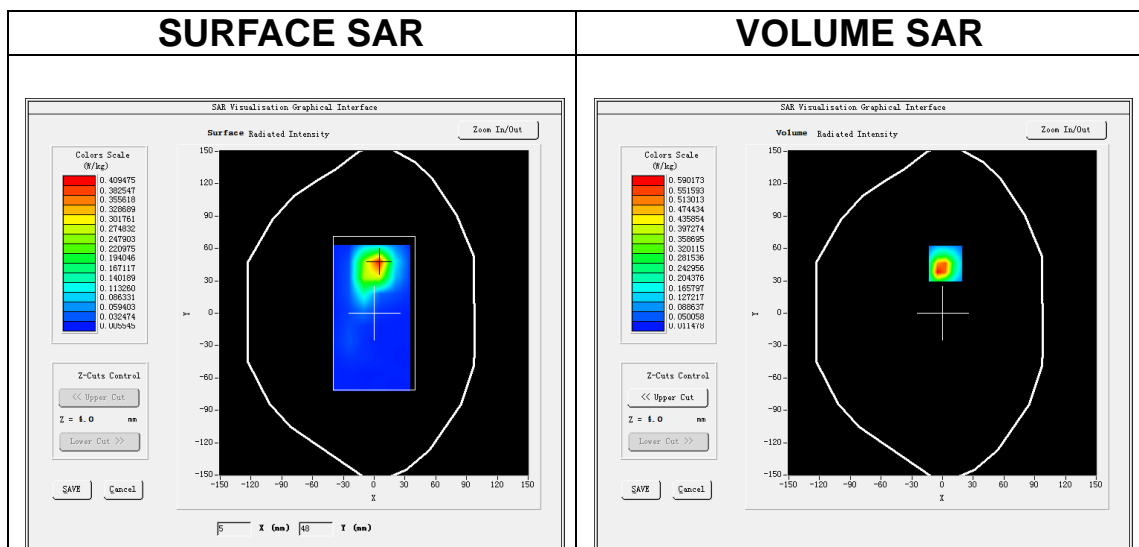
Date of measurement: 28/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>Band4 WCDMA1700</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>2.45</u>

B. SAR Measurement Results

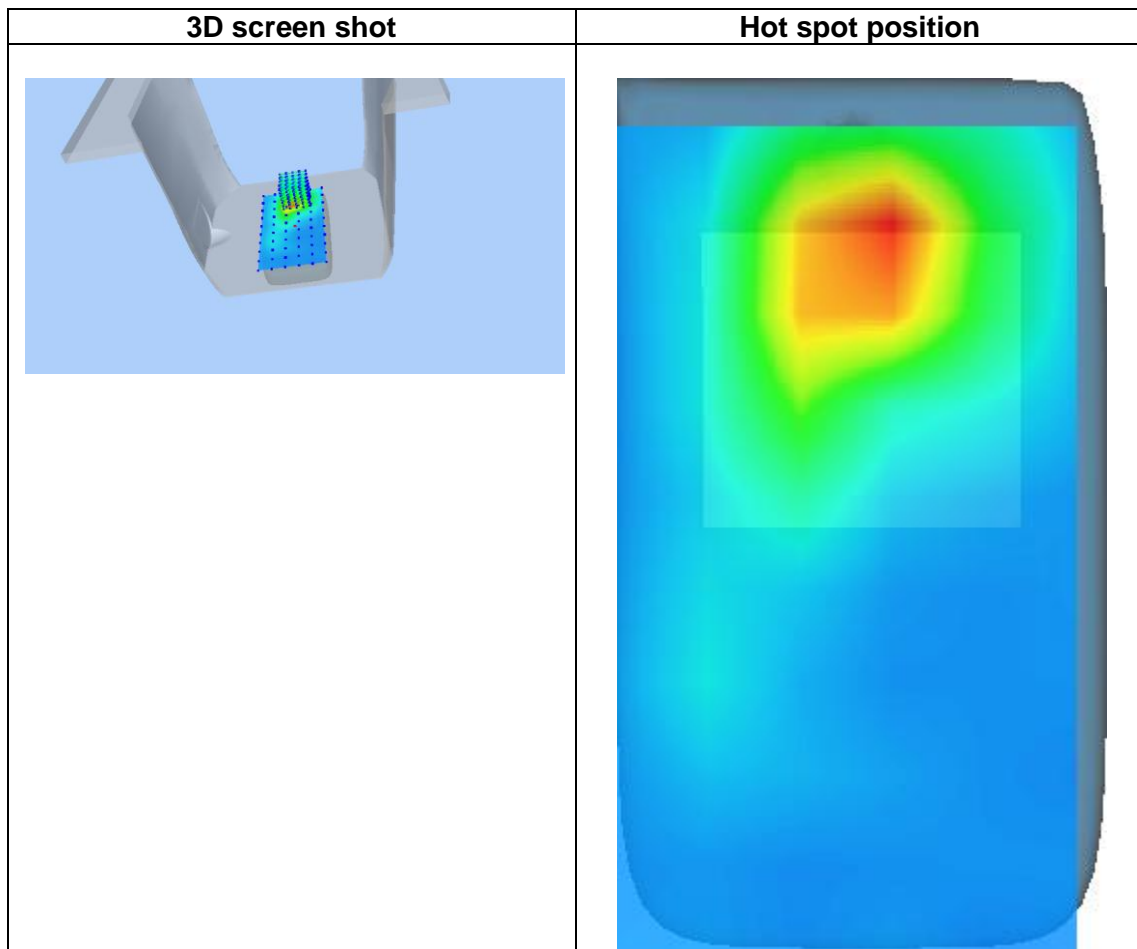
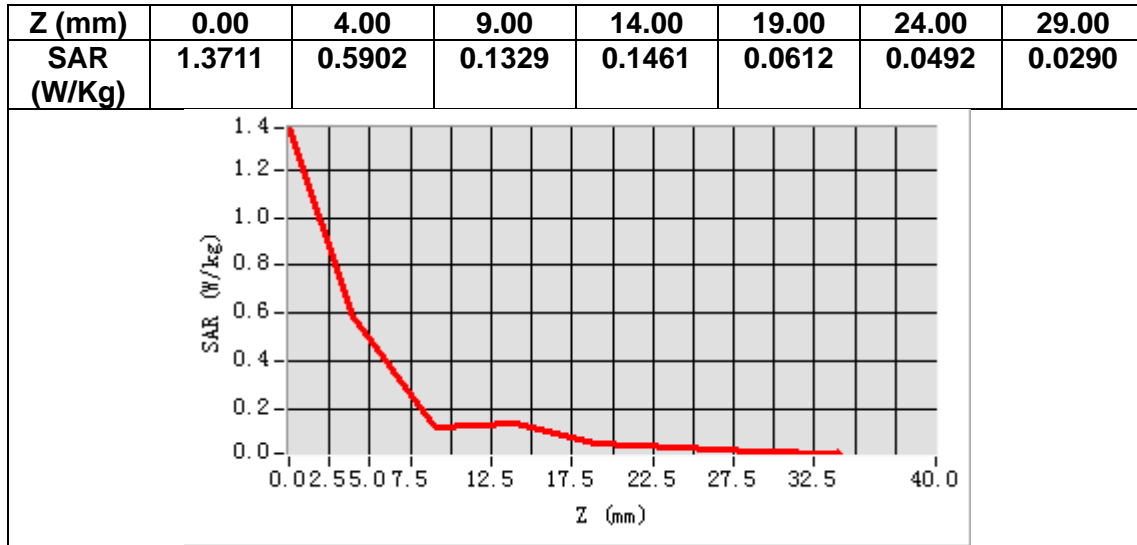
Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.794827
Relative permittivity (imaginary part)	13.921265
Conductivity (S/m)	1.339535
Variation (%)	-0.500000



Maximum location: X=3.00, Y=46.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.244657
SAR 1g (W/Kg)	0.588231



MEASUREMENT 5

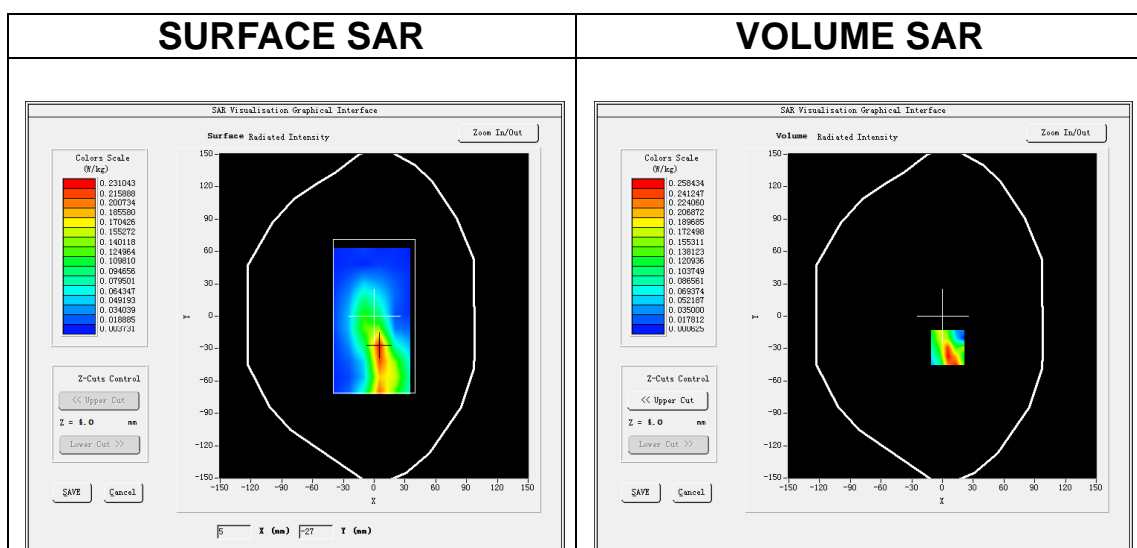
Date of measurement: 30/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>Band5_WCDMA850</u>
Channels	<u>Middle</u>
Signal	<u>WCDMA (Crest factor: 1.0)</u>
ConvF	<u>2.32</u>

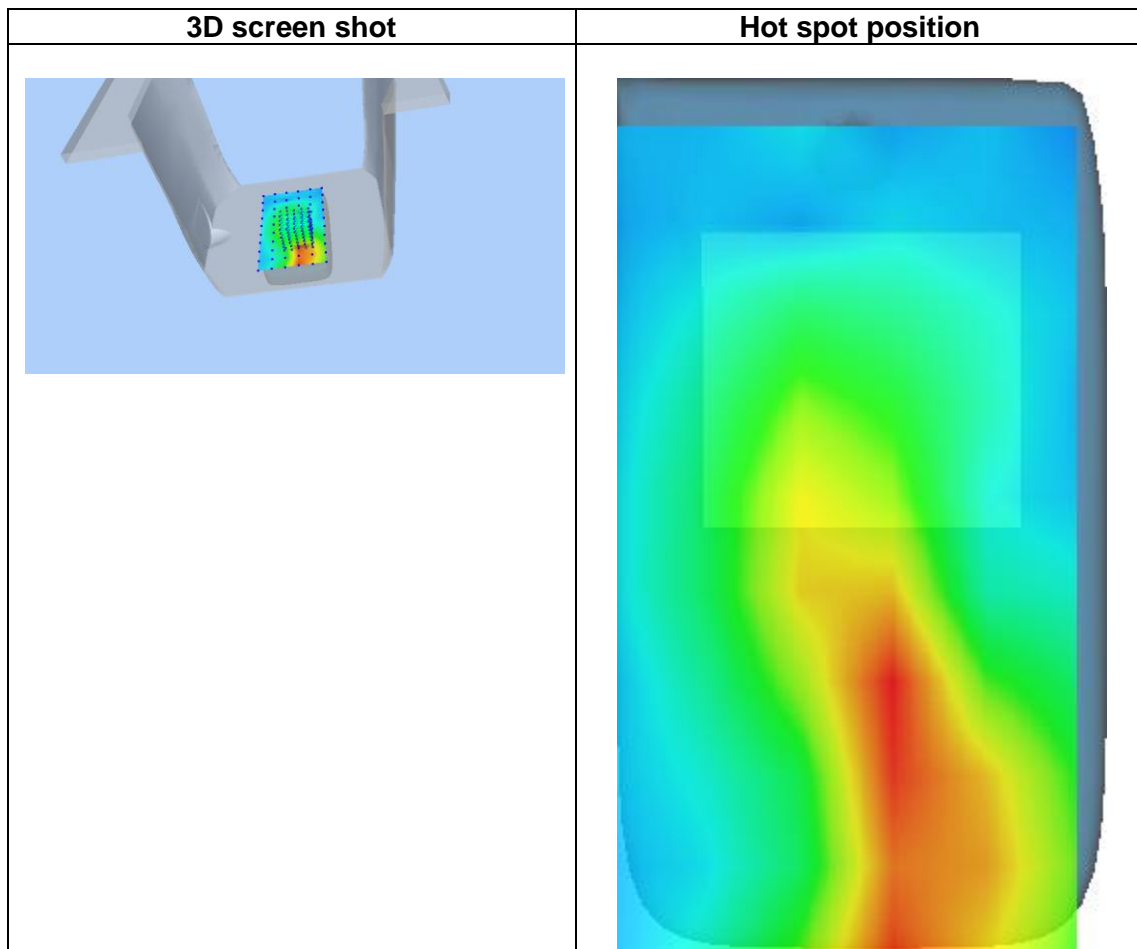
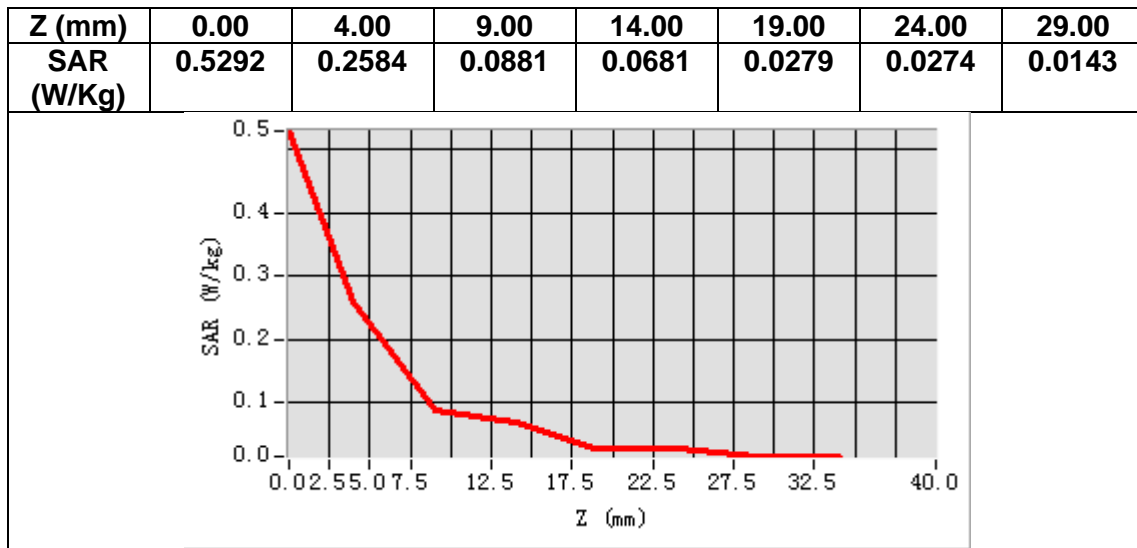
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.537582
Relative permittivity (imaginary part)	19.549063
Conductivity (S/m)	0.908380
Variation (%)	-0.300000



Maximum location: X=5.00, Y=-29.00
SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.114299
SAR 1g (W/Kg)	0.242071



MEASUREMENT 6

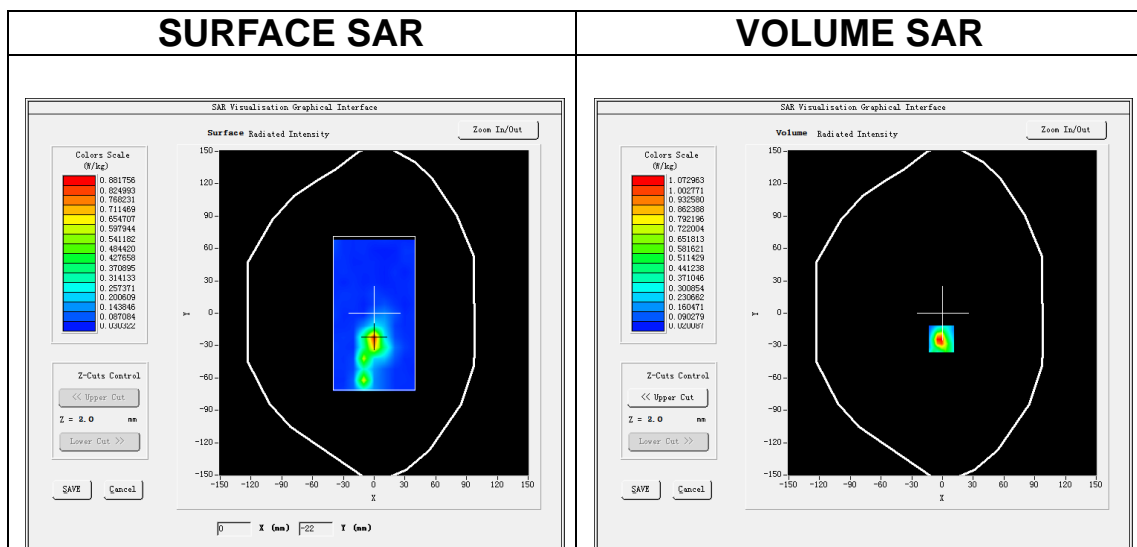
Date of measurement: 7/6/2024

A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>IEEE 802.11a U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11a (Crest factor: 1.0)</u>
ConvF	<u>2.07</u>

B. SAR Measurement Results

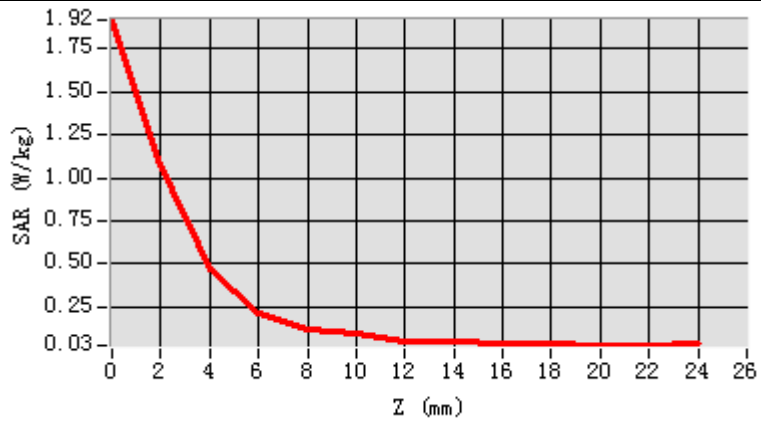
Frequency (MHz)	5200.000000
Relative permittivity (real part)	34.873428
Relative permittivity (imaginary part)	15.913428
Conductivity (S/m)	4.597213
Variation (%)	-4.840000



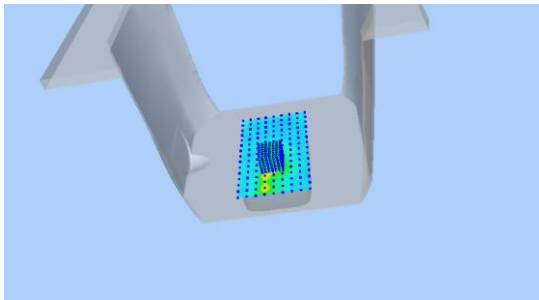
Maximum location: X=-1.00, Y=-24.00
SAR Peak: 2.17 W/kg

SAR 10g (W/Kg)	0.188562
SAR 1g (W/Kg)	0.579272

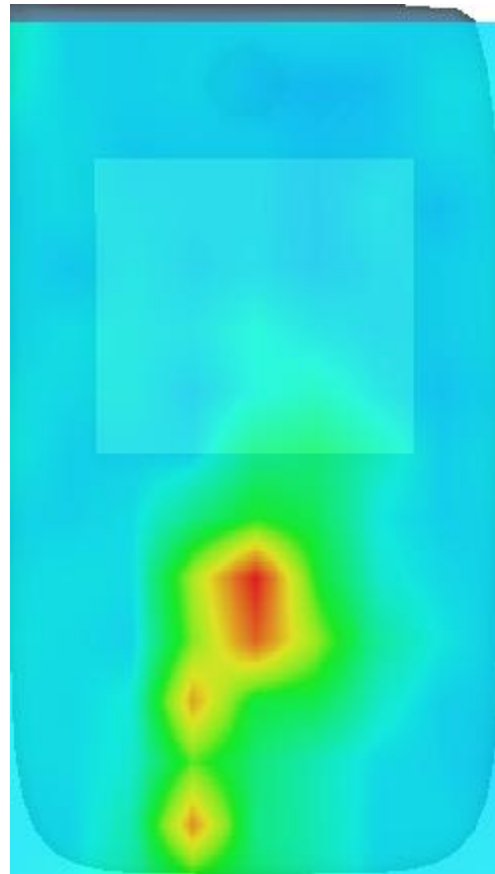
Z (m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/Kg)	1.9172	1.0730	0.4728	0.2146	0.1210	0.0946	0.0479	0.0502	0.0406	0.0334	0.0306	0.0268



3D screen shot



Hot spot position



MEASUREMENT 7

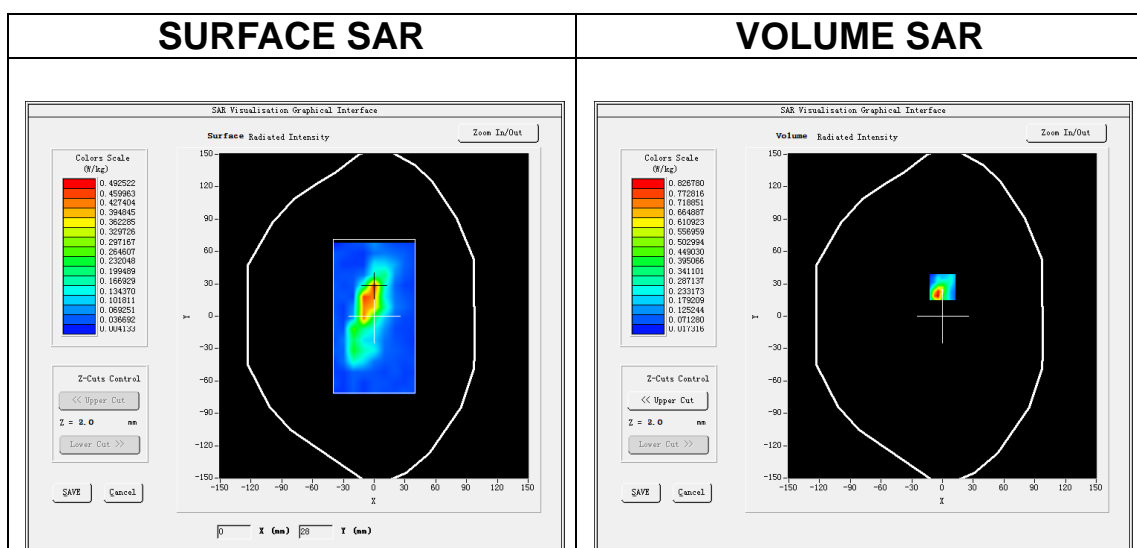
Date of measurement: 6/6/2024

A. Experimental conditions.

Area Scan	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
ZoomScan	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>IEEE 802.11a U-NII</u>
Channels	<u>Middle</u>
Signal	<u>IEEE802.11a (Crest factor: 1.0)</u>
ConvF	<u>2.04</u>

B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	34.380527
Relative permittivity (imaginary part)	16.175756
Conductivity (S/m)	5.198708
Variation (%)	-1.590000

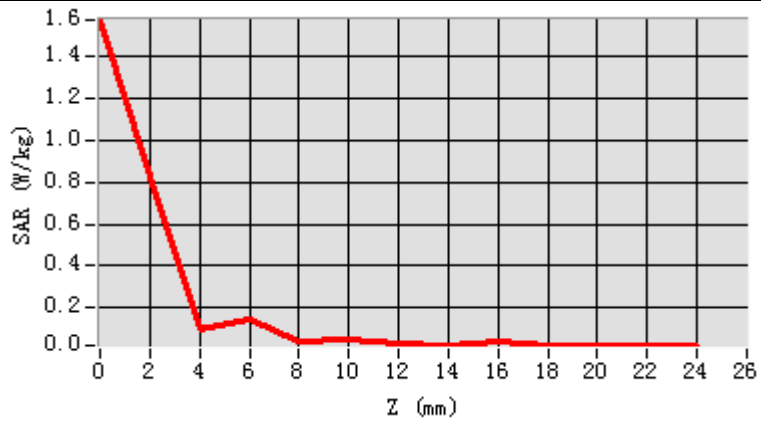


Maximum location: X=0.00, Y=27.00

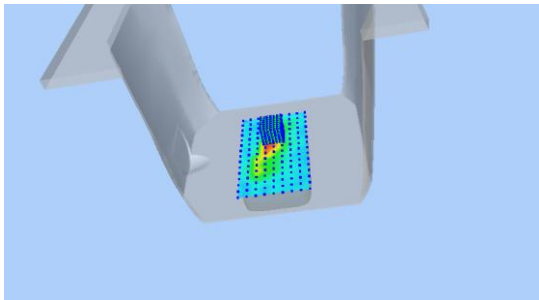
SAR Peak: 1.77 W/kg

SAR 10g (W/Kg)	0.121825
SAR 1g (W/Kg)	0.408895

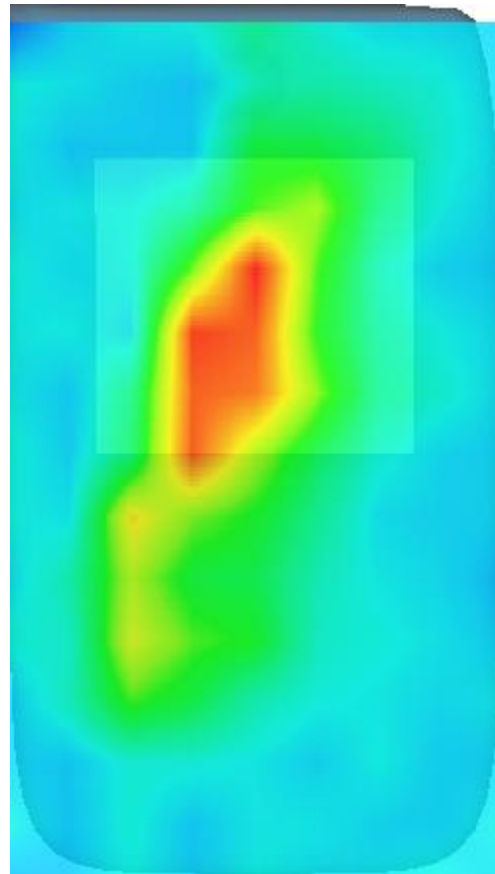
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.5759	0.8268	0.1004	0.1425	0.0356	0.0446	0.0256	0.0235	0.0340	0.0219	0.0217	0.0192



3D screen shot



Hot spot position



MEASUREMENT 8

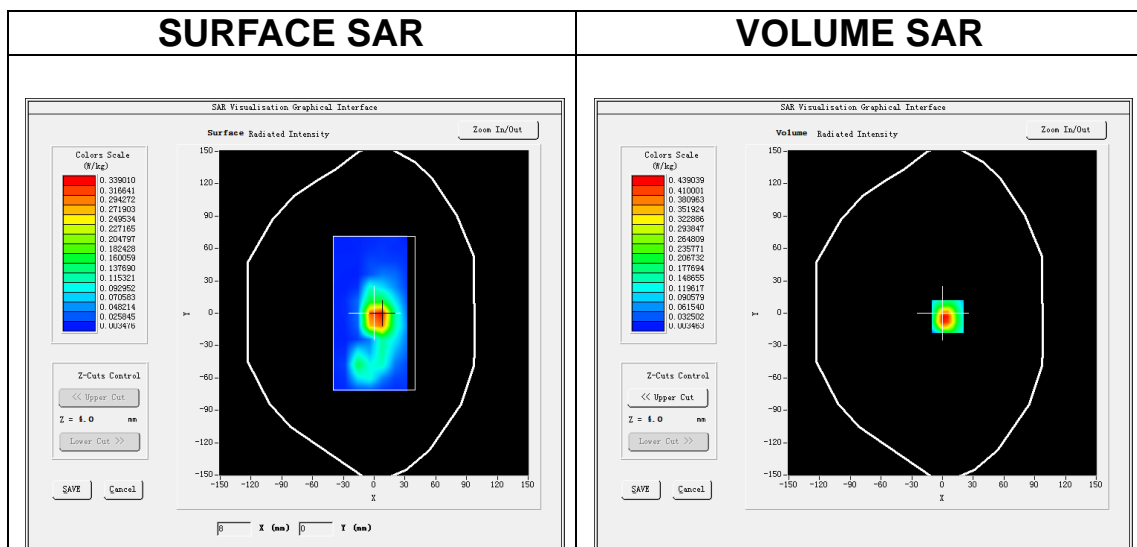
Date of measurement: 5/6/2024

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>IEEE 802.11b ISM</u>
Channels	<u>Low</u>
Signal	<u>IEEE802.11b (Crest factor: 1.0)</u>
ConvF	<u>2.85</u>

B. SAR Measurement Results

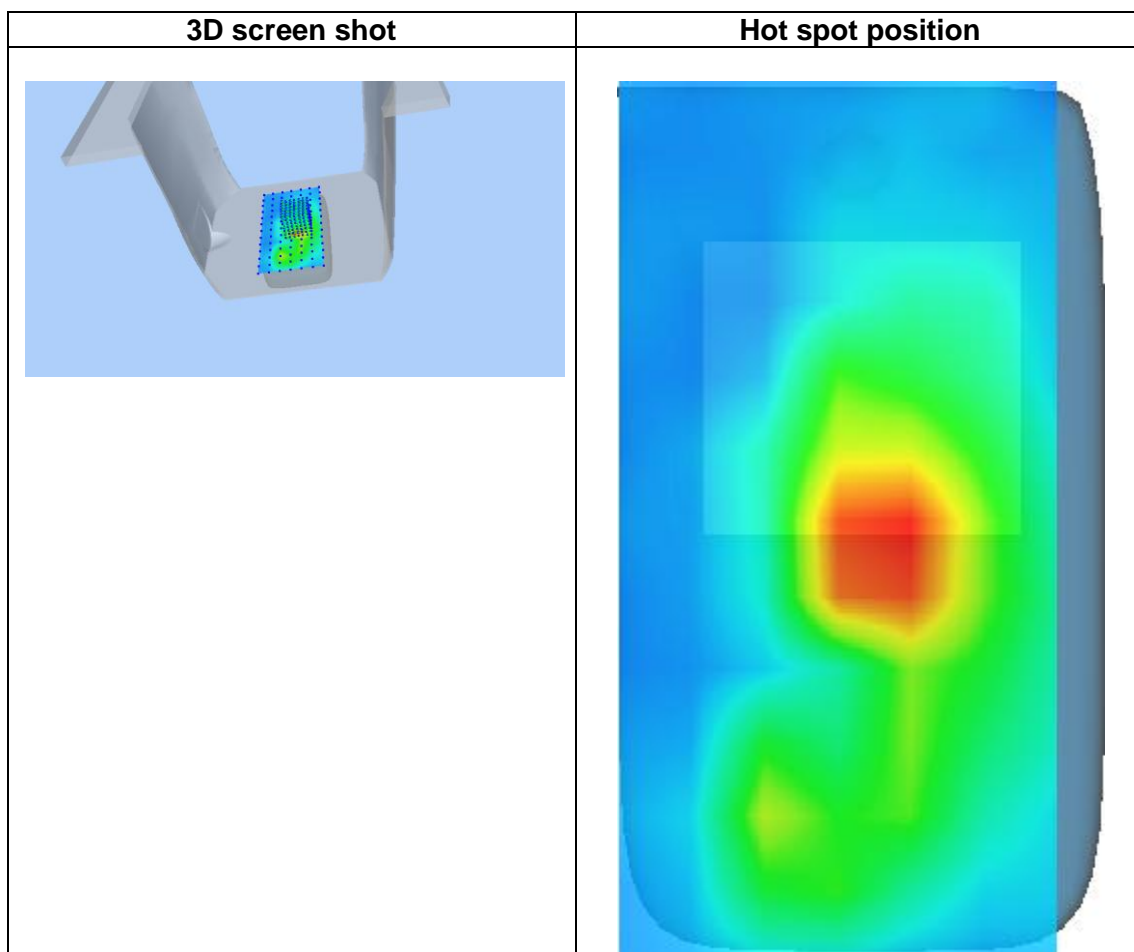
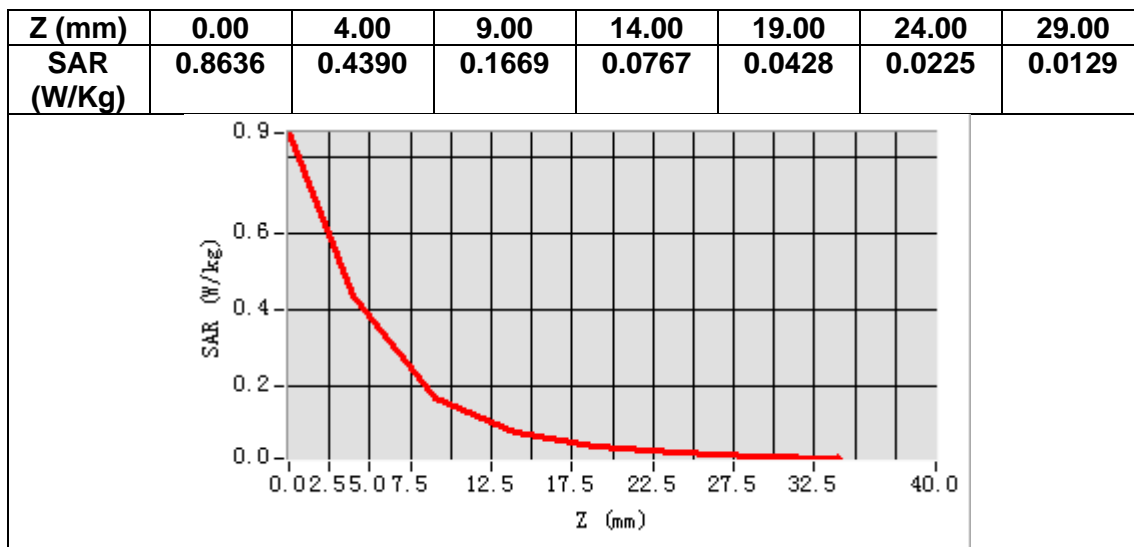
Frequency (MHz)	2412.000000
Relative permittivity (real part)	37.814335
Relative permittivity (imaginary part)	12.880978
Conductivity (S/m)	1.726051
Variation (%)	-0.750000



Maximum location: X=5.00, Y=-3.00

SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.173769
SAR 1g (W/Kg)	0.408589



MEASUREMENT 9

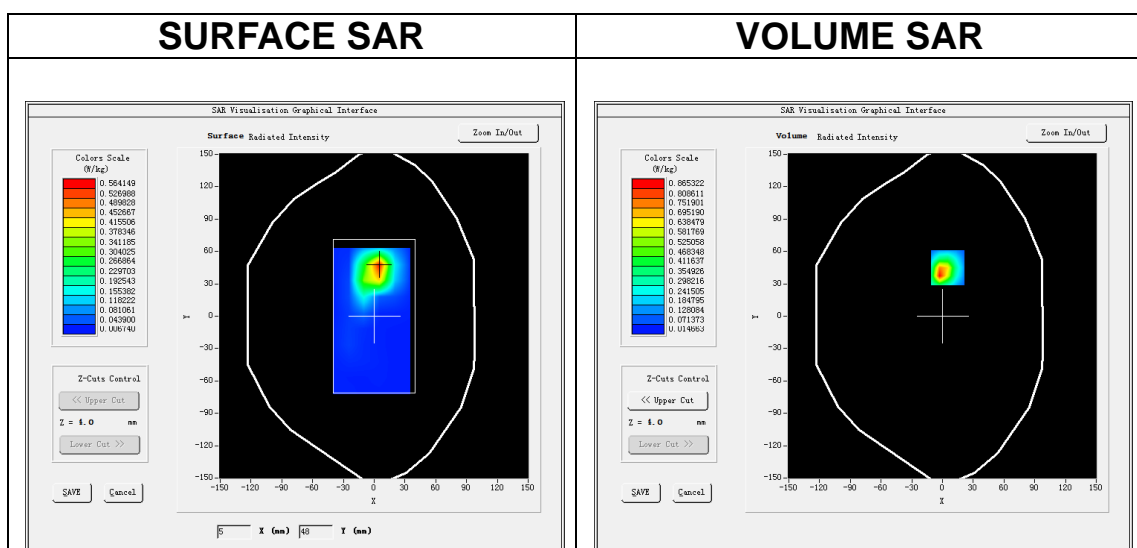
Date of measurement: 3/6/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 2</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.63</u>

B. SAR Measurement Results

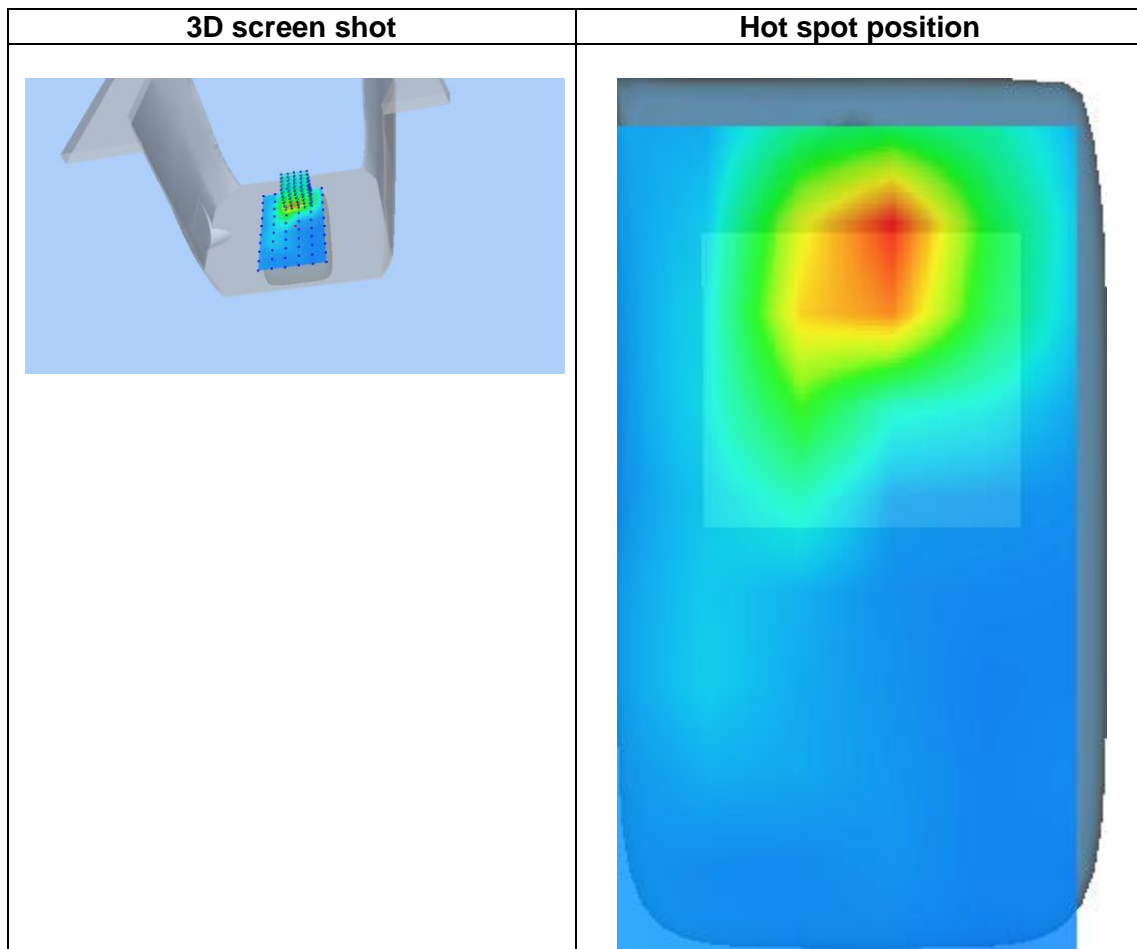
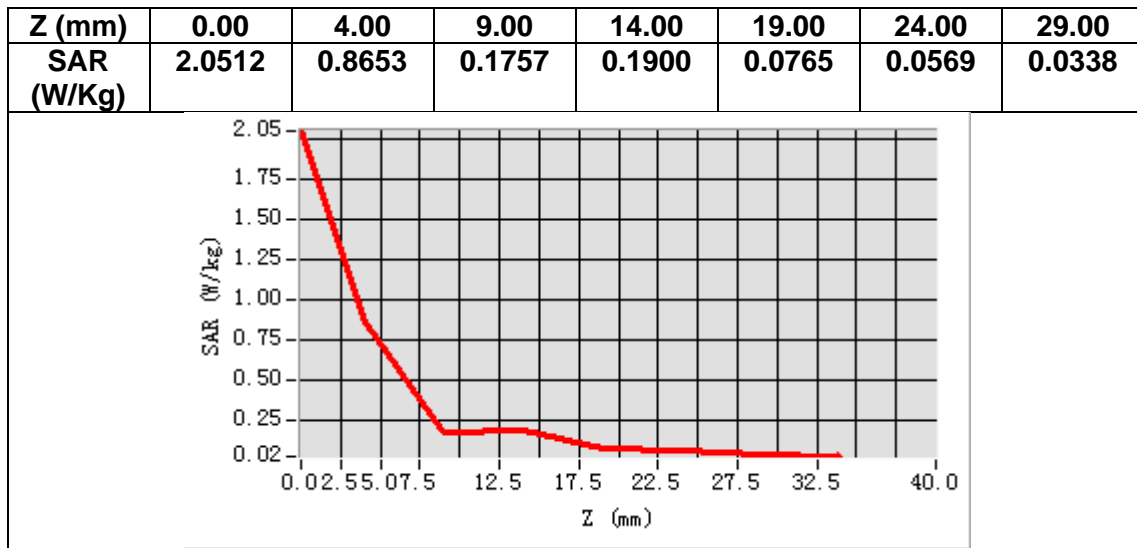
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.857780
Relative permittivity (imaginary part)	13.673918
Conductivity (S/m)	1.428165
Variation (%)	0.620000



Maximum location: X=5.00, Y=45.00

SAR Peak: 1.68 W/kg

SAR 10g (W/Kg)	0.325146
SAR 1g (W/Kg)	0.821328



MEASUREMENT 10

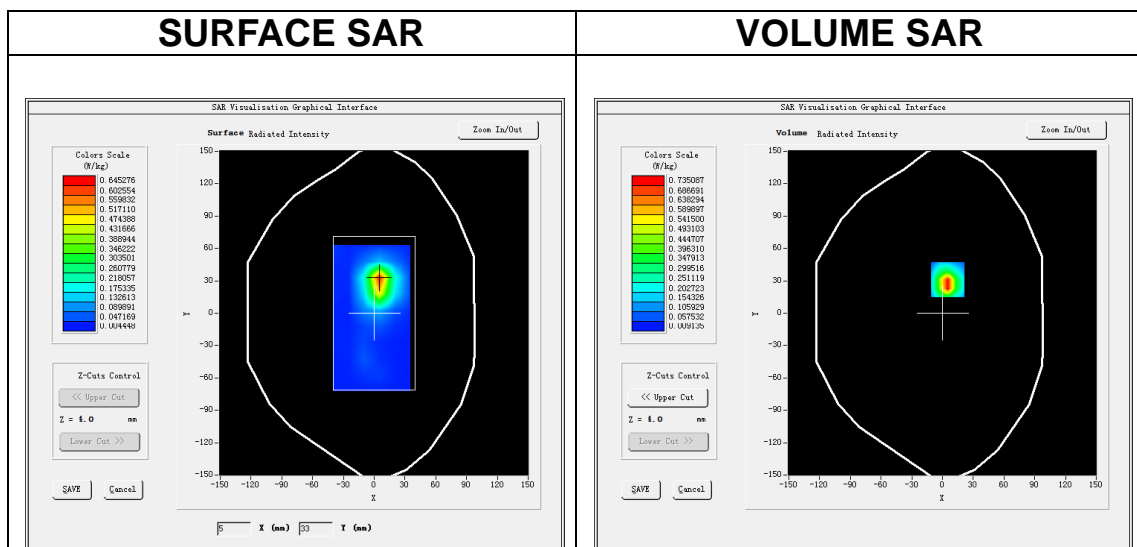
Date of measurement: 28/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 4</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.45</u>

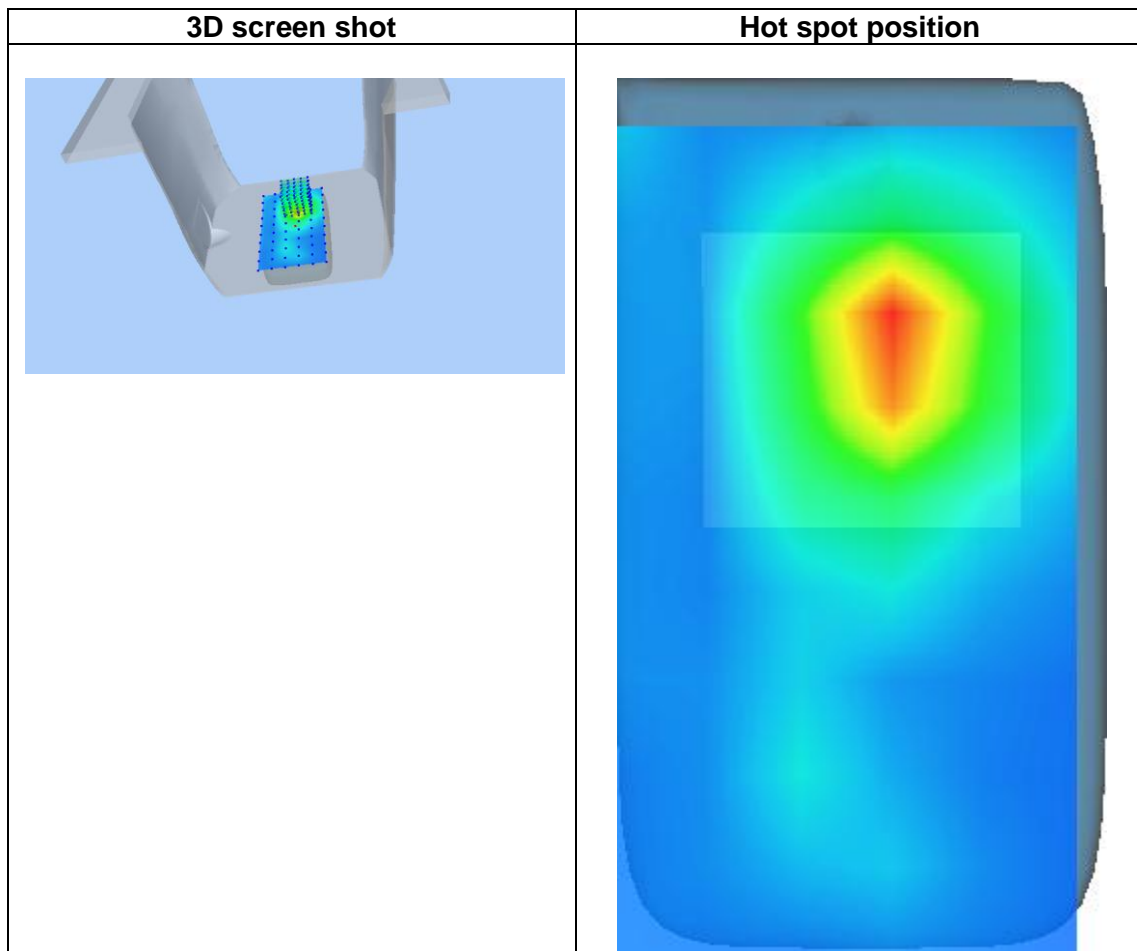
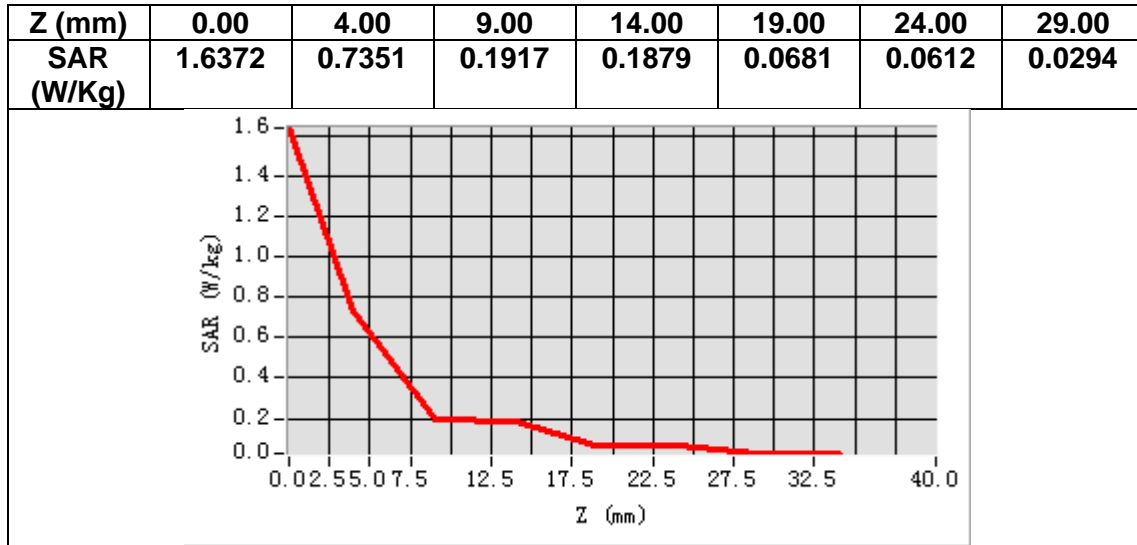
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.802727
Relative permittivity (imaginary part)	13.906115
Conductivity (S/m)	1.338464
Variation (%)	-1.120000



Maximum location: X=5.00, Y=31.00
SAR Peak: 1.40 W/kg

SAR 10g (W/Kg)	0.288896
SAR 1g (W/Kg)	0.699619



MEASUREMENT 11

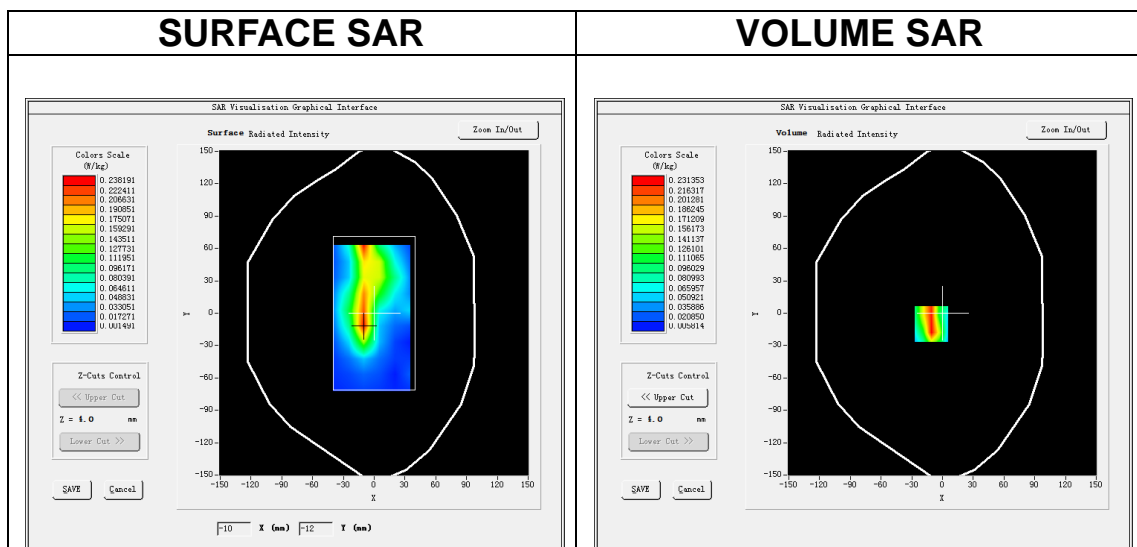
Date of measurement: 30/5/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 5</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.32</u>

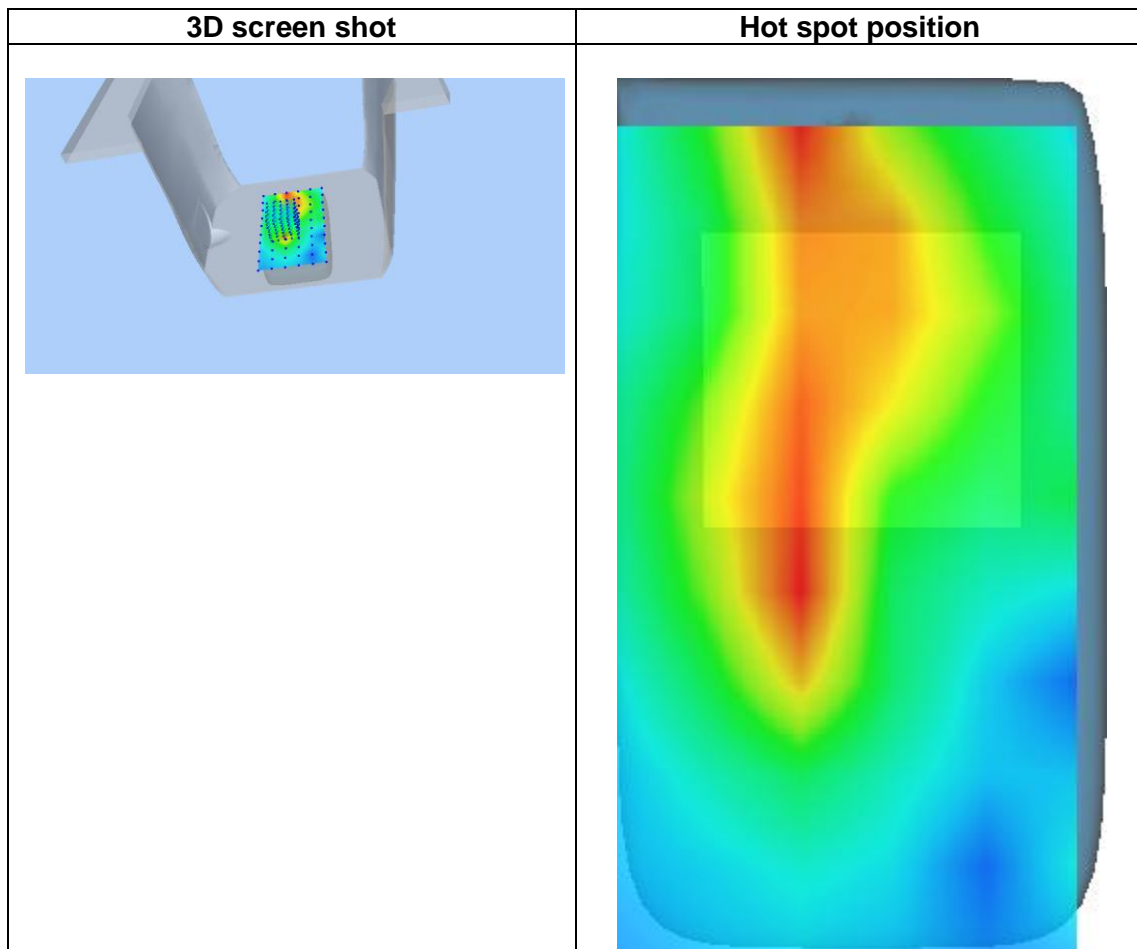
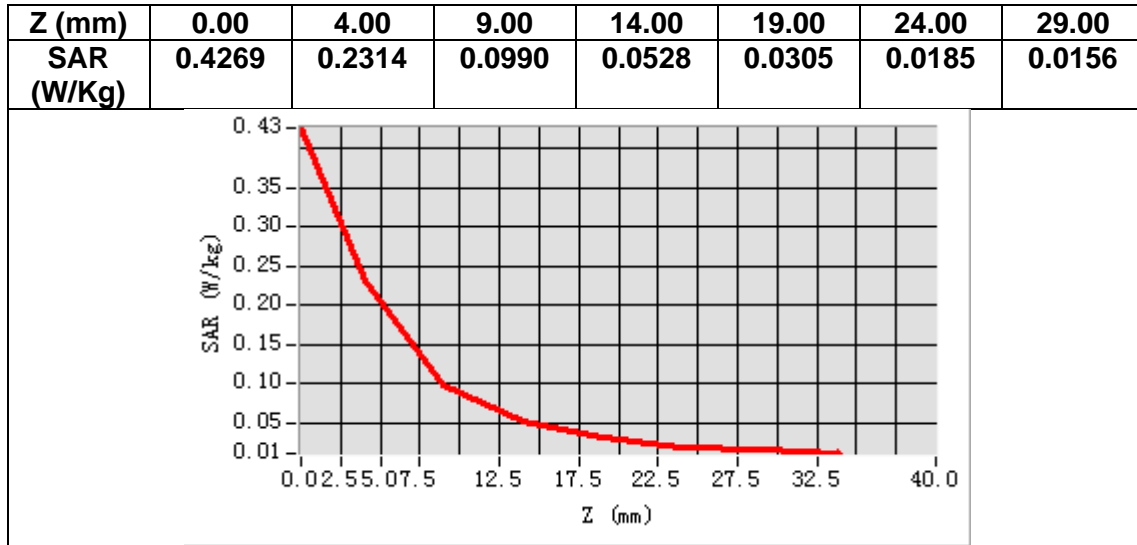
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.539852
Relative permittivity (imaginary part)	19.550861
Conductivity (S/m)	0.908572
Variation (%)	-2.240000



Maximum location: X=-11.00, Y=-10.00
SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.099306
SAR 1g (W/Kg)	0.220084



MEASUREMENT 12

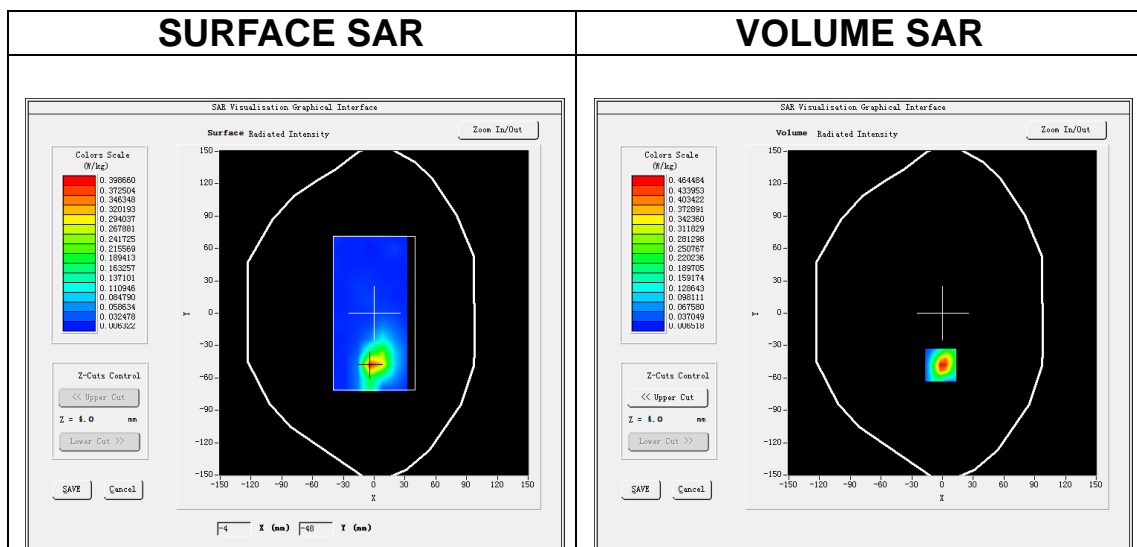
Date of measurement: 29/5/2024

A. Experimental conditions.

Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 7</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.65</u>

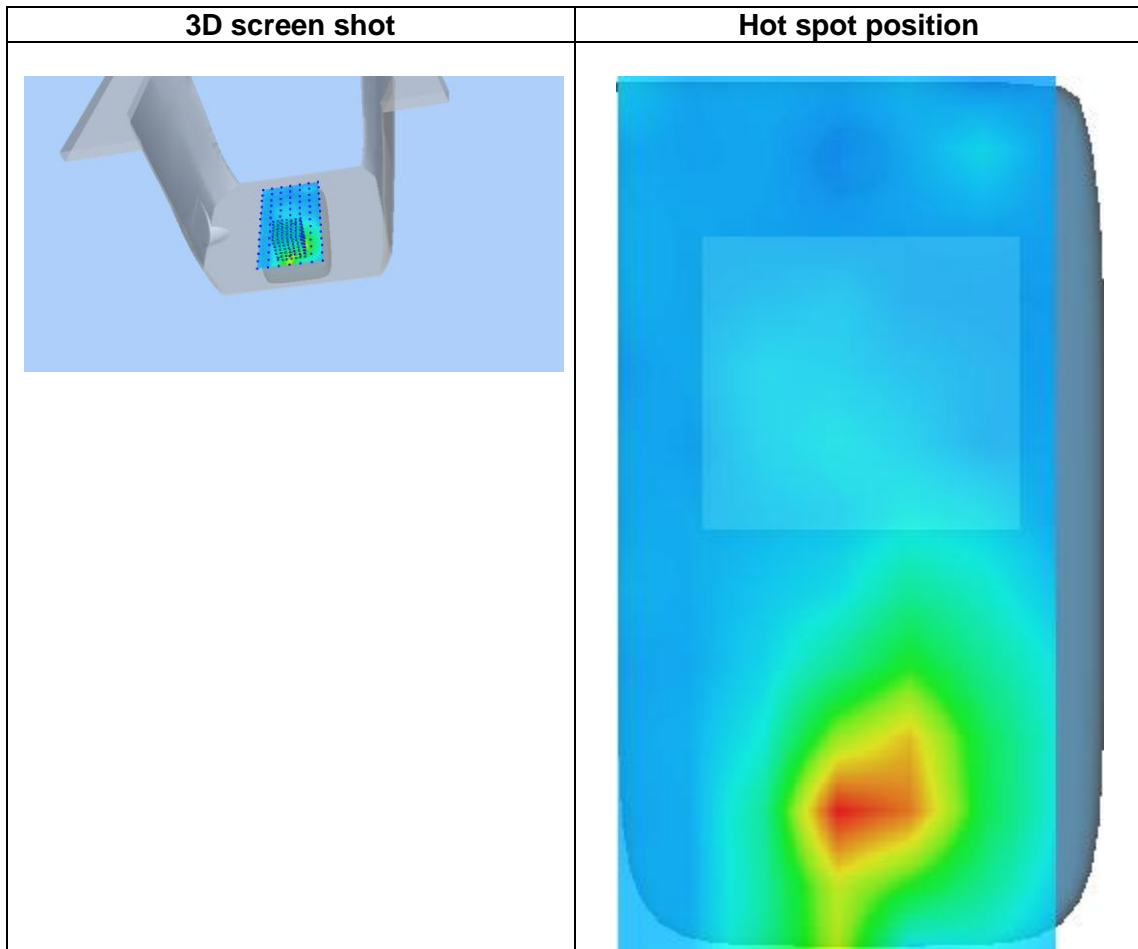
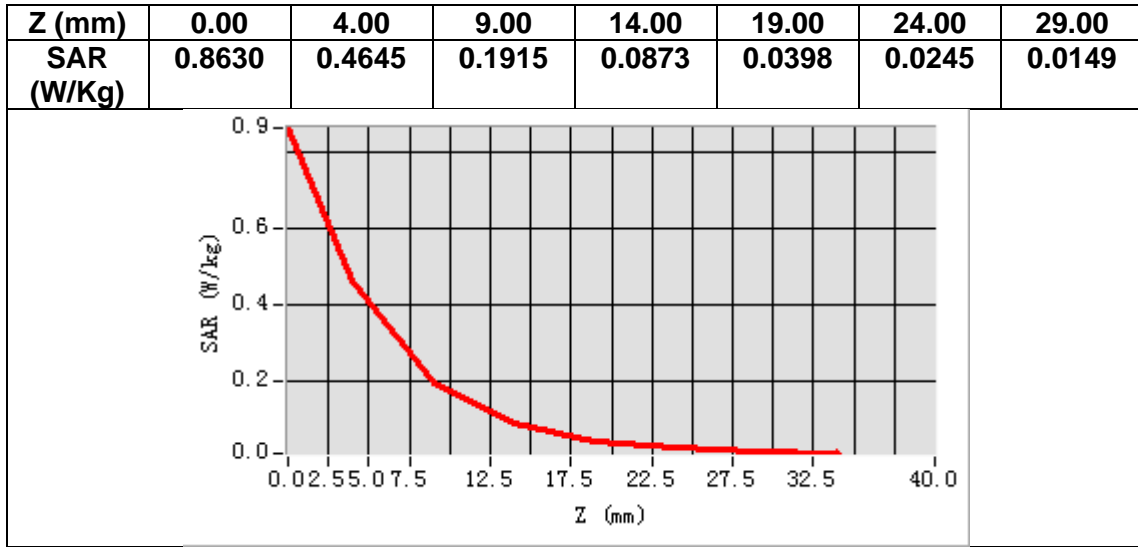
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.508785
Relative permittivity (imaginary part)	13.834288
Conductivity (S/m)	1.948329
Variation (%)	-2.220000



Maximum location: X=-2.00, Y=-48.00
SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.167787
SAR 1g (W/Kg)	0.430405



MEASUREMENT 13

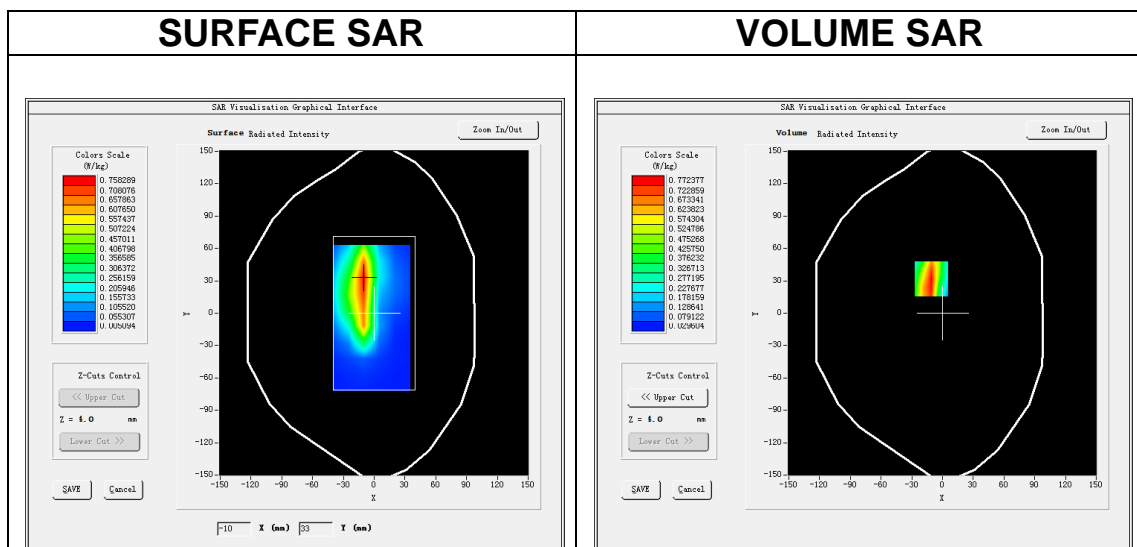
Date of measurement: 4/6/2024

A. Experimental conditions.

Area Scan	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
Phantom	<u>Validation plane</u>
Device Position	<u>Body</u>
Band	<u>LTE band 12</u>
Channels	<u>Middle</u>
Signal	<u>LTE (Crest factor: 1.0)</u>
ConvF	<u>2.37</u>

B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative permittivity (real part)	41.427540
Relative permittivity (imaginary part)	21.802214
Conductivity (S/m)	0.856948
Variation (%)	-0.630000



Maximum location: X=-11.00, Y=32.00
SAR Peak: 1.26 W/kg

SAR 10g (W/Kg)	0.398136
SAR 1g (W/Kg)	0.730309